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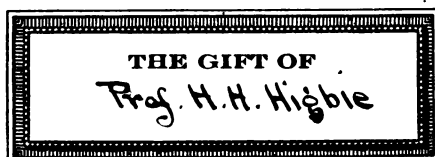
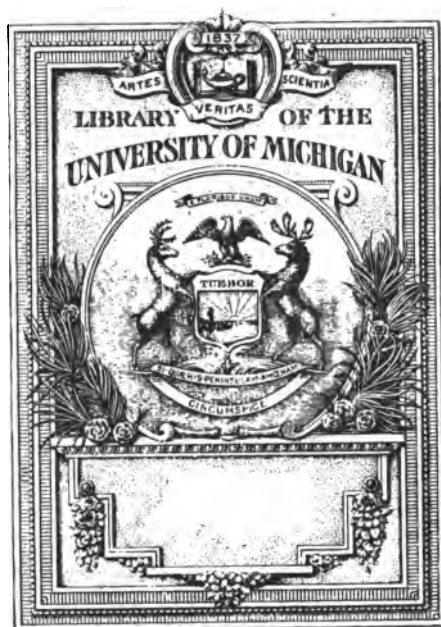
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ELECTRICAL BUREAU
—
ANNUAL REPORT
PHILADELPHIA
—
1891.



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P5
A2

Compliments of

David R. Walker,

CHIEF OF ELECTRICAL BUREAU.

FIRST ANNUAL MESSAGE
OF
EDWIN S. STUART,
Mayor of the City of Philadelphia,
WITH
ANNUAL REPORTS
OF THE
DIRECTOR OF THE DEPARTMENT OF
PUBLIC SAFETY
AND
CHIEF OF THE
ELECTRICAL BUREAU
FOR THE
YEAR ENDING DECEMBER 31, 1891.
ISSUED BY THE CITY OF PHILADELPHIA, 1892.

PHILADELPHIA:
DUNLAP & CLARKE, PRINTERS & BINDERS, NOS. 1306-8-10 FILBERT ST.
1892.

11

FIRST ANNUAL MESSAGE.

OFFICE OF THE MAYOR, CITY HALL.

Philadelphia, April 4, 1892.

TO THE SELECT AND COMMON COUNCILS
OF THE CITY OF PHILADELPHIA.

GENTLEMEN:—In accordance with the Act of Assembly approved June 1, 1885, entitled “An Act to provide for the better government of Cities of the first class in this Commonwealth,” I have the honor to herewith transmit to your Honorable Bodies my First Annual Message upon the finances and general condition of the affairs of the City.

On Monday, April 6, 1891, I took the oath and assumed the office of Mayor of the City of Philadelphia, and thereupon appointed Mr. George Roney, Director of the Department of Public Safety, and Mr. James H. Windrim, Director of the Department of Public Works; the President and Members of the Board of Directors of the Department of Charities and Correction having been appointed by my distinguished predecessor for a term of five years, in accordance with the above Act, were continued in office.

On September 4, 1891, Mr. George Roney resigned the office of Director of the Department of Public Safety, and I appointed Mr. John Lamon, the then Superintendent of Police, as Acting Director of the Department, *ad interim*, and on October, 1, 1891, I appointed as the Director the present incumbent, Abraham M. Beitler, Esq.

Finances.

I was met at the very commencement of my term of office with a financial calamity such as none of my predecessors had ever experienced. In consequence the greater part of my first official year has been taken up with complications growing out of the condition of affairs in the Department of City Treasurer, under the incumbency of John Bardsley.

On March 20, 1891, the Keystone National Bank, one of the active depositories of the City, suspended payment and closed its doors, the City having there then on deposit \$141,554.32, this at a time when a Committee of your Honorable Bodies had been in active examination and investigation of the administration of the Department of City Treasurer. The mal-administration of that Department had placed the financial affairs of the City in such a complicated and critical condition, that I deemed it my duty to appoint, under the authority in me vested by Section 1 of the above Act, a Committee of three competent persons to examine the accounts of that Department, and on May 21, 1891, I appointed such a Committee, consisting of Messrs. Taylor Faunce, Lawrence E. Brown and John S. Kuen. On the same day John Bardsley resigned his office. On May 23, 1891, the members of the above Committee made affidavit to the fact that they had discovered a misappropriation of public moneys by John Bardsley, and immediately a warrant was issued; that evening he was placed under arrest, and, subsequently, pleading guilty, was sentenced to imprisonment. On May 8, 1891, the Spring Garden National Bank, which was also a City depository, suspended payment and closed its doors, holding \$148,402.25 of the City's money. On May 26, 1891, Mr. John S. Kuen, one of the members of the above Committee, owing to the pressure of private duties, resigned his position. As his successor, I appointed Thomas W. Barlow, Esq., a member of the Philadelphia Bar, who continued to act until the Committee had completed its labors and made its final report, which final re-

port was transmitted to your Honorable Bodies on October 3, 1891, having been preceded by a number of partial reports transmitted to you when and as received by me during the course of the examination by this Committee.

In my Inaugural Address I stated that if we expected the great improvements we so much desired we must have money, and money in an amount considerably exceeding that which we have had in the past.

On January 1, 1891, the Funded Debt was \$56,579,320.22; on January 1, 1892, the Funded Debt was \$56,701,320.22. This indebtedness will be reduced by the payment of \$2,741,500.00 of the six per cent. loan, and of \$400,000.00 of the four per cent. loan that matures this year.

The assessed valuation of property as furnished by the Board of Revision of Taxes, is as follows:

For the year 1892.....	\$735,696,772 00
For the year 1891.....	713,902,842 00
An increase of.....	<u>\$21,793,930 00</u>

For the year 1891 there was appropriated to the various Municipal Departments \$16,484,027.01, and for this year, \$17,755,202.76, an increase of \$1,271,175.75; which is about the average yearly increase during the last ten years.

I had hoped to start upon the second year of my administration with greatly increased appropriations, in order that many of the permanent improvements contemplated by me could have been commenced, but was met with a deficiency from the year 1891 of over one-half of a million of dollars (\$522,645.80). To aid in making up this deficit I had to permit \$373,513.58 to be charged off from the appropriations to the Department of Public Works, for the year 1892 in order that there would not have to be returned to you all the appropriation bills for the year, that they could be scaled down, rearranged to come within the legal limit and be re-appropriated. This deficit in addition to the sum of \$1,015,384.80 which would otherwise have been available for this year, as

follows :—In Keystone National Bank, \$441,554.32 ; in Spring Garden National Bank, \$148,402.25, and School Fund, \$425,428.23, does not make, to say the least, a very encouraging outlook for the second year of my administration

If we are to have the permanent improvements we all so much desire and which we all agree should be commenced, we should have the money to perform the work, and the quicker we settle the problem as to how this money shall be raised, the earlier will we be able to start with these improvements, otherwise the same may be delayed for years to come.

There are two methods for providing the ways and means : one, by increased taxation, the other, by creating a loan. I most respectfully recommend to the earnest consideration of your Honorable Bodies, the question of creating an additional loan, in an amount which will provide for the improvements that the present condition of our City demands so that we may begin at once permanent improvements and progress as other large cities. If any loan is created I most respectfully recommend that it be made for and appropriated to three or four specific and very much needed improvements ; first, the repaving of our streets with improved pavements upon a systematic and well defined policy, laid by the best and most improved methods, for I believe that one mile of pavement well laid is better than two miles improperly done ; second, in the extension of our system of main sewers, and, third and fourth, in the extension of our gas and water systems. Such improvements will, after being finished, benefit the future generations, and those generations should be required to bear their proportionate share of the cost, and the present not be required to pay for all. The other general improvements may be provided for gradually by the annual appropriations.

I also beg to respectfully recommend that you immediately consider the subject of refunding at a lower rate of interest the City's six per cent. loan, which, could it be accomplished, and I firmly believe it may, would save in interest a large amount.

DEPARTMENT OF PUBLIC SAFETY.

The Director of the Department of Public Safety has submitted a full and detailed report of the workings of his Department for the year 1891.

Bureau of Police.

During the year the Bureau of Police has been increased in efficiency by the addition of 102 patrolmen and the opening of new station-house at Twentieth and Berks street; a station and fire-house at Roxborough; a station, patrol and fire-house at Sixty-first and Thompson streets; a station and fire-house at Tacony; a station and fire-house at Sixty-fifth and Woodland avenue; alterations and additions were contracted for station-houses at Moyamensing avenue below Dickinson street; at Tenth and Taylor streets; at Germantown; at Front and Master streets, and at Twentieth and Fitzwater streets.

There was also purchased a lot at Front and Westmoreland streets upon which to erect a police and fire station-house. The new houses are now all completed and occupied, the improvements to the old ones nearing completion.

Much credit is due to this Bureau for the very vigorous and successful methods taken to suppress the illicit sale of liquor, the arrests for this offence numbering 514, being an increase of 297 over the year 1890. The arrests for lottery policy selling were seventy-four for the year 1891, as against nine for the year 1890.

Bureau of Fire.

During the past year there were added to this Bureau eight men and five Silsby Rotary Engines, and if you continue the annual appropriations made for the past four years for a few years more, it will be thoroughly equipped with the newest and best apparatus. In the appropriation for the year 1892 you made provision for the purchase of a fire-boat, which will be the first in this City—such boats have been very successful

and of great benefit in other cities and no doubt will be here. We will enter into the contract for this boat at the earliest possible moment and hope in the near future to have it in commission. For faithful, courageous, and successful services I consider this Bureau second to none, and it should in the matter of the appropriations by your Honorable Bodies receive most careful and liberal consideration.

Electrical Bureau.

This Bureau has continued its rapid advances and maintained its reputation as the finest equipped, most practical and best managed Municipal Electric Bureau in this country, a fact admitted and conceded by all electrical experts.

During 1891 there have been successfully laid 8,624 feet of conduits throughout the different sections of our City. The report of the Chief shows that there are 1,871 arc lights in use, including 50 owned by the Girard Trust, and this year we will add 879 to that number, being 441 more than has been added before to the City's service in any one year.

One of the most important questions now before your Honorable Bodies is the one requiring the removal of the unsightly poles for over-head electric service. We are far behind the other large cities in this respect, and while the City herself has been gradually extending her underground service she has not been followed in any just proportionate degree by the private corporations. I most respectfully and yet earnestly recommend to your careful and deliberate consideration the advisability of enacting at once a general ordinance upon this subject, requiring the gradual removal of all poles and overhead wires and the placing of all wires underground. There is no valid reason whatsoever why this should not be done, and every reason, from the standpoint of the City's best interest, why it should. We must sooner or later meet this question, and there is no better time to commence this much needed improvement than the present. Every delay will make the accomplishment of this greatly desired result that much more difficult.

I respectfully recommend to your consideration the question of establishing for the City her own electric light plant. We could build and equip stations upon City property in various localities, and I believe eventually get not only a better service in every respect, but also have absolute control of all the lights that may be needed for street lighting.

Bureau of Health.

The report of the Bureau of Health shows the general condition of the health of the City to be good. The Municipal Hospital, as now located, is in a portion of the City in which improvements are being made very rapidly, and some measure must be taken at the earliest possible moment to remove this hospital to a location where it will not interfere with or retard the advance of improvements.

We have been afflicted for several years past with the sale of diseased meats within the City limits. The present Director of the Department of Public Safety has given the subject his careful and earnest consideration, and after consultation with the Board of Health has made a vigorous and determined effort to stamp out this growing evil. He recommended, and your Honorable Bodies gave him, an appropriation to organize a force whose particular duty it should be to investigate and prevent the sale of diseased meats. There is nothing so prejudicial to the health of a community as the sale of unwholesome food, and I am glad to state that by reason of the action of the Director of the Department the City is now comparatively free from such affliction.

Bureau of Building Inspectors.

The report of this Bureau shows a decrease of permits issued and receipts since 1890: there were 4,272 permits issued, covering 9,142 separate operations, showing a decrease in permits of 210, and in building operations of 3,136; the total value of buildings and alterations authorized by permits being \$20,088,236.50.

Bureau of City Property.

This Bureau reports receipts during the past year of \$82,571.47 as against \$80,548.54 for 1890, being an increase of \$2,022.93. The City should own as far as practicable the various buildings occupied by her for municipal purposes, thereby saving the large amount now paid in rentals for the private properties so used. The Public Building Commission, by finishing with all possible rapidity quarters in which these Departments would be installed, would make an immediate saving to the City of many dollars, there being thus saved, in the removal of the Recorder of Deeds office to the City Hall, \$18,500.

The questions of erecting a new Morgue and of improving the City's property along the river fronts are both commended to your attention.

Bureau of Boiler Inspectors.

This Bureau still successfully continues its important work. The number of boilers inspected and approved during 1891 being 2,979; the number of certificates issued being 2,540; the number of new boilers 500, making under the supervision of this Bureau 3,334. There was paid into the City Treasury by this Bureau \$3,316.31, the amount earned over and above the yearly expenses.

DEPARTMENT OF PUBLIC WORKS.

The Fifth Annual Report of the Director of the Department of Public Works is herewith transmitted, presenting detailed statements of the great amount of important work accomplished, with also that which it is hoped to accomplish in the future, provided the recommendations of the Director meet with your approval and the ways and means necessary to carry out the same are provided.

Bureau of Gas.

The itemized statements of the receipts and expenditures of this Bureau will be found in the report hereto attached, as follows :

In 1891 the receipts were.....	\$3,774,072 09
In 1890 the receipts were.....	3,659,644 30
Being an increase of.....	<u>\$114,427 79</u>

Increased quantity of gas sold for which payment is not due is as follows :

1891, 40,601,900 cubic feet, at \$1.50.....	\$60,902 85
1890, 14,538,694 cubic feet, at \$1.50.....	21,808 04
	<u>\$ 39,094 81</u>
Which, added to the increased receipts.....	114,427 79
Total increase over 1890.....	<u>\$153,522 60</u>
The expenditures for 1891 were.....	\$2,826,274 70
And for 1890 were.....	2,806,551 42
Being an increase of.....	<u>\$19,723 28</u>
Showing a net increase in profits during the	
year 1891 of.....	<u>\$133,799 32</u>

The amount of gas furnished free to the City during	
the year 1891 was.....	587,398,328 cubic feet.
And in 1890.....	551,459,572 “
Being an increase during the present year of.....	<u>35,938,756 “</u>

This total amount of gas (587,398,328 cubic feet) thus consumed, if sold to the public at the present rate, would have placed in the City Treasury \$881,097.49. Economy in the use of gas by the Municipal Offices can only be enforced when you shall provide by ordinance that each Department shall pay out of its appropriation for the gas it consumes.

It is expected that with the completion of the Walnut street bridge there will be laid a new twenty-inch main thereon for supplying additional gas to West Philadelphia. This will then be connected with the present circuit of large mains laid

during the past year. With the additional supply and the further extensions contemplated for that section there will be secured that which it has so long needed, and should certainly have, an adequate supply of gas.

One of the most important problems which confronts us now is the question of increasing as well as of improving our supply of gas. We have a contract with a private corporation for which you have appropriated \$500,000 for the purchase of gas manufactured in the plant located at the City's Twenty-fifth Ward Gas Works. It is of the utmost importance that we should at once make arrangements to purchase this plant, in order that the entire control of the same will be in the hands of the City, and I beg to respectfully recommend that in the consideration given to this subject you shall appropriate money, not only to make such purchase, but also to hereafter extend the works that the City may make the necessary quantity of gas, instead of purchasing from private parties. The control of our supply of gas should forever remain with the City of Philadelphia herself, and should never be surrendered by either sale or lease. The experience of all other Municipal corporations has been where the gas works were owned by the City, and were afterwards purchased or leased by private corporations, there has always followed an endeavor on the part of such city to regain control of the same.

Bureau of Highways.

The appropriations to this Bureau for the year 1890 for the repaving of streets not occupied by passenger railway companies was \$380,000.00, and for streets occupied by passenger railway companies was \$175,000.00, making a total of \$555,000.00. In 1891 the total for streets not occupied by passenger railway companies was \$405,263.75, with no appropriations for railway streets. On October 5, 1891, the Supreme Court of the Commonwealth of Pennsylvania handed down a decision affirming the opinion of the lower Court, declaring that passenger railway companies within the City

of Philadelphia must repave with improved pavements from curb to curb the streets they occupy. It was then too late in the season to begin any of this work. There have been several conferences between representatives of these various companies, the Director of the Department of Public Works, and myself, to arrange some general plan of action under which they should begin work, but as yet we have been unable to arrive at any conclusion.

If we do not arrive at a settlement of this question within a short time, I will submit, by special message, for your consideration the plan and recommendation of the Director for the prosecution of this work.

On December 15, 1891, I transmitted to you a communication upon the question of the repaving of Broad street with a new and improved pavement. You have already appropriated for the year 1892 enough money to start and partially finish this improvement, and I most sincerely trust that you will appropriate the balance of the money necessary to complete this great work, which, when done, will give us one grand highway with an improved pavement extending from the northern limit to the southern limit of the City, a distance of thirteen miles, connecting many of the streets which have already, from time to time, been so repaved.

The Belgian blocks with which this street is now paved will be utilized in paving adjacent streets now paved with cobble stones, these cobble stones being utilized as a foundation for the improved Broad street pavement. I most respectfully refer you to the recommendation of the Director in his report, hereto attached. He has given much time and study to this important question, and his recommendation, if carried out, would solve the question of good and well-paved streets, a matter in which every citizen is most directly interested.

Bureau of Street Cleaning.

The work of this Bureau during the past year has been very satisfactory; the number of complaints being 257 less than in the previous year.

A new policy was inaugurated in asking for bids for the removal of garbage, waste, etc., by disposing of it on dumps, as heretofore, and also by cremation. The bids for the latter system, however, were found to be too expensive for the appropriation available. I recommend that the City shall erect upon her own land crematories and grant the contractors the privilege of using them as a condition of their contract.

On account of the growth of our City and the improvements already made, in what is now our suburban district, the territory in which deposits of waste and offal can be made is rapidly becoming limited, and in consideration of the great distance it will eventually have to be carted, I beg to recommend to your early attention the question of determining how to dispose of the same.

Bureau of Lighting.

The expenses of this Bureau must necessarily increase each year upon the annual extension of the public lighting. The number of electric arc lights in 1890 was 1,293, and in 1891 was 1,719, an increase of 426 over 1890; the number of gasoline lamps in 1890 was 7,160, and in 1891, 7,911, an increase of 751. The total number of electric, gas and gasoline lamps now under the charge of the Bureau of Lighting in 1890 was 28,013 as against 30,141 in 1891, an increase of 2,128. This statement presents additional support to my argument recommending that the City at the earliest possible opportunity erect and control her own electric light plant for Municipal purposes. Each additional arc light upon the public highway is not only a convenience to the citizens generally, but is also of material aid in the prevention of crime.

Bureau of Surveys.

There has been built within the last year 20 main sewers, 3 sections of the Wissahickon High Level sewer, 1 section of the intercepting sewer, in all 36,102 linear feet.

The Westmoreland street section of the Aramingo Canal system has been completed from the Canal to the Delaware river. The Department has under contract four sections of the High Level Intercepting sewer along the Wissahickon valley, and it is expected these extensions will be completed by summer. There was also 133,216 linear feet of branch sewers built, and 23,465 linear feet of branch sewers built under private contract. There is still a great deal to be accomplished in this important branch of public work which is so closely connected with the health of our City.

The Walnut street bridge is approaching completion and work is progressing thereon very satisfactorily. With additional appropriations for the completion of the road bed of the river spans, the railings and general finish, this bridge can be open for public travel in the latter part of this year.

I beg to also call your special attention to the condition of the bridge continuing Girard avenue over the Philadelphia and Reading Railroad, and the timber bridge over the Schuylkill river at the Falls. The repairing of these bridges, on account of their condition, is practically impossible, and the question of their reconstruction should receive your early attention.

Bureau of Water.

On October 8, 1891, I transmitted to your Honorable Bodies the report of the Director upon the future water supply of our City, and I beg to again call your attention to this report, which was made after a most thorough and exhaustive study of the subject.

The total increase of the number of gallons of water supplied during the last five years has been 23,238,868 235 gallons; the consumption during 1891 was 140 gallons per day per capita. Strange to state, while this has rapidly increased year by year, we have to-day no greater pumping capacity than we had in 1887. It was impossible during the past summer, to keep the East Park Reservoir filled to

its entire capacity, the depth of water only averaging 12 feet, which is 13 feet less than can be stored therein. This has been caused by our limited pumping capacity, which will be very materially improved by the 1st of July next, when we expect to have completed and in service the new 20 million gallon pumping engine contracted for with the Southwark Foundry and Machine Company by my distinguished predecessor. This would, however, have still left our pumping capacity inadequate, and on October 8, 1891, in a special message, I also presented the necessity for additional pumping engines and urged still further appropriations to remedy this very dangerous and long-continued defect in our water system.

By reason of the appropriations for 1892 the Department will contract for an additional 20 million gallon engine for the Spring Garden pumping station; a 10 million gallon engine for the pumping station at Belmont; a 10 million gallon engine for the Roxborough station; a 15 million gallon engine at the Frankford pumping station at Lardner's Point on the Delaware river. With these additional facilities we will be able to store in the reservoirs now finished a much larger quantity of water and permit it a longer time in which to subside before supplying it.

The new Roxborough reservoir, which will have a capacity of 148 million gallons, intended for supplying the Twenty-first and Twenty-second Wards and that portion of the Twenty-eighth Ward above Westmoreland street, we will have finished during the present year. This, with the reservoir already there, will afford such storage capacity as to provide at all times an ample supply of subsided water for the above District.

The most important question decided this year was the selection of the Indian Queen Lane site, for a storage reservoir to supply the entire northwest section of the City, which has a population of upwards of 250,000 people now, and is rapidly increasing. This section is, and always has been,

supplied by water from direct pumpage. For two years the Water Committee of your Honorable Bodies has been considering the question of selecting a site in this very important district, and now that the question has been decided, it is due to the health and comfort of the population living in that section that you immediately make an appropriation which will enable the Department to start the work on this reservoir, which has been much too long delayed. There is no question in connection with the water supply that demands greater and more immediate attention than this.

The next matter in importance for your early consideration is the question of building a reservoir in the West Park to supply the present demands of West Philadelphia and those of the future which will be made necessary by the rapidly increasing population.

As previously stated, all moneys spent for reservoirs is a permanent investment; they will always be available no matter from whence may come the future water supply of our City.

I also most sincerely trust that you will very carefully consider the practical and thoroughly sound recommendation of the Director of the Department of Public Works upon this entire question of our water supply, as made in his report herewith transmitted, which I beg to state has my unqualified and entire approval.

DEPARTMENT OF CHARITIES AND CORRECTION.

I beg leave to call to your attention the able and comprehensive report of the President of the Board of Directors of the Department of Charities and Correction, herewith transmitted, showing in detail the great amount of work in the way of permanent improvement that has been accomplished during the past year.

On November 12, 1891, the new buildings for the Insane, after a thorough inspection, and upon the Architect's certifi-

cate, were accepted by the Department. The total cost of these buildings, including steam heating, and fixtures for electric and gas lighting, and the laundry building, was \$236,344.53.

Included within these buildings is one main dining room, in which all the insane patients may be fed at one time. This dining room is as perfectly arranged as any in the country.

I beg also to call to your attention the very interesting and exhaustive description of all of these buildings, made by the President of the Board, which is hereto attached, and also to call your special attention to the many other suggestions, recommendations, etc., in the accompanying report, all of which have for their ultimate purpose the improvement of the condition of the unfortunates whom our City has to care for, in the two Bureaus in the Department, the Bureau of Charities and the Bureau of Correction.

The ordinance just passed, placing upon the City plan a Boulevard will be of advantage and benefit to the citizens generally. I most earnestly recommend that you consider the advisability of providing at the earliest moment the necessary appropriation for commencing this great public improvement, that it may be pushed to completion with all possible dispatch, and, as it will be the principal approach to Fairmount Park, it should be made the most beautiful and attractive.

I have the honor to also transmit herewith for your consideration the Annual Reports of the following Departments:

Receiver of Taxes,
City Treasurer,
City Controller,
Law,
Education, and
Sinking Fund Commission.

There ends to-day another municipal year—the first of my administration. During that time much that has been of detriment and of disadvantage to the good name of our City has occurred, yet material progress has been made in bettering her condition and advancing her toward the foremost place among other great cities. Many improvements in the public service have been inaugurated and successfully established, and much in the way of permanent improvements has been added to our City's prosperity.

We are starting upon a new municipal year, and while despite the misfortunes of the past twelve months much was accomplished for her good, there yet remains very much more to be undertaken.

The people expect, and properly, too, that careful, considerate, and conscientious administration of public affairs from you, the Legislative, and me, the Executive Branch of the Municipal Government, which will assure and advance the best interests and material welfare of the City of Philadelphia.

To that end let us both bend our earnest thought, our best endeavor, our every energy, that at its close we may merit and receive the approbation and commendation of our fellow citizens.

I am,

Respectfully,

EDWIN S. STUART,

Mayor

ANNUAL REPORT

OF THE

DEPARTMENT OF PUBLIC SAFETY,

FOR THE YEAR ENDING DECEMBER 31, 1891.

OFFICERS
OF THE
Department of Public Safety.

December 31, 1891.

Director,
ABRAHAM M. BEITLER.

SECRETARY—JAMES HOYT.

BOOKKEEPER—HIRAM HORTER, JR.

MESSENGER—ROBERT CROUSE.

Chiefs of Bureaus :

POLICE—JOSEPH M. SCHOOLEY, *Acting Superintendent.*

FIRE—JOHN R. CANTLIN.

ELECTRICAL—DAVID R. WALKER.

BUILDING INSPECTORS—WILLIAM GILLINGHAM, *President.*

BOILER INSPECTION—JOHN OVERN.

CITY PROPERTY—A. S. EISENHOWER.

HEALTH—WILLIAM P. TROTH, *Chief Clerk.*

FIFTH ANNUAL REPORT
OF THE
DEPARTMENT OF PUBLIC SAFETY.

Philadelphia, February 1, 1892.

HON. EDWIN S. STUART,
Mayor of Philadelphia.

SIR:—In accordance with Act of Assembly I herewith submit a summary of the operations of the Department of Public Safety, together with the reports of the Chiefs of the several Bureaus embraced therein, for the year ending December 31, 1891.

I assumed the duties of Director on 1st October, 1891. Much of this report, therefore, has to do with the operations of this Department under Hon. William S. Stokley, who was Director until April 6, 1891, and under George Roney, Esq., who was Director from April 6, 1891, until September 4, 1891; and under John Lamon, Esq., who was acting Director from September 4, 1891, until October 1, 1891.

Necessarily my views are based upon but a short term of service. Since my appointment, however, I have given to the mastery of the details of the Department earnest study and unremitting labor.

Bureau of Police.

During the year 1891, the Bureau of Police was increased in efficiency, one hundred patrolmen being added by the ordinance of December 31, 1890, and two by the ordinance of June 30, 1891.

New buildings were contracted for as follows:—A station house at Twentieth and Berks streets; a station and fire-house at Roxborough; a station, patrol and fire-house at Sixty-first and Thompson streets; a station and fire-house at Tacony; a station and fire-house at Sixty-fifth and Woodland avenue; and alterations and additions were contracted for to station-houses at Moyamensing avenue below Dickinson street; at Tenth and Taylor streets; at Germantown; at Front and Master streets, and at Twentieth and Fitzwater streets.

In addition a lot was purchased on Front street above Westmoreland street for a police and fire station.

The houses contracted for are all completed or approaching completion.

The one hundred and two patrolmen allotted for 1891 were distributed as follows:—

Second District.....	10
Third District.....	2
Fourth District.....	2
Fifth District.....	4
Seventh District.....	2
Ninth District.....	4
Thirteenth District.....	5
Fourteenth District.....	6
Fifteenth District.....	10
Sixteenth District.....	10
Seventeenth District.....	4
Eighteenth District.....	6
Twenty-first District.....	8
Twenty-second District.....	8
Twenty-third District.....	2
Twenty-fourth District.....	9
Twenty-fifth District.....	4
Twenty-sixth District.....	4
Reserves.....	2
Total.....	102

There were no additions to the Patrol Service during 1891. This most useful branch of the service will, however, be added to during the coming year.

The Mounted Service was increased during the year 1891 by the addition of seven men, making a force on December 31, 1891, of thirty-four officers and seventy-nine men, distributed as follows:

Thirteenth District.....	10
Fourteenth District.....	25
Sixteenth District.....	11
Seventeenth District.....	5
Twenty-first District.....	11
Twenty-second District.....	5
Twenty-fourth District.....	10
Twenty-fifth District.....	9
Twenty-seventh District.....	27
<hr/>	
Total.....	113

Two matrons were appointed in 1891.

The following Districts now have matrons:—Reserves, Second, Third, Fourth, Fifth, Sixth, Eighth, Thirteenth, Seventeenth, Eighteenth, and Nineteenth Districts.

In anticipation of the completion of the patrol house at Front and Master streets, the telephone service was introduced into the Tenth and Eleventh Districts.

The following was the force on duty on December 31, 1891:

Superintendent.....	1
Captains.....	4
Lieutenants	30
Sergeants.....	71
House-Sergeants.....	80
Patrol-Sergeants.....	28
Patrol Officers.....	28
Patrol Drivers.....	28
Patrolmen.....	1,527
Matrons	11
Pilots	4
Engineers.....	4
Firemen.....	4
Fire Marshal.....	1
Police Surgeon.....	1

District Surgeons.....	28
Chief of Detectives.....	1
Detectives.....	14
Superintendent of Vans.....	1
Van Drivers.....	6
Hostlers.....	5
Cleaners.....	42
Chief Clerk.....	1
Assistant Clerks.....	4
Central Station Clerk.....	1
Messenger.....	1

Some detailed figures from the reports will show the amount of work done by the Bureau during the year 1891.

The total number of arrests during the year were 53,184, an increase of 4,036 over the preceding year.

The arrests for intoxication and disorderly conduct were 24,785, an increase of 124 over the preceding year.

The arrests for selling liquor without a license were 514, an increase of 297 over 1890.

The arrests for lottery policy selling were 74, as against 9 for 1890.

For vagrancy the arrests numbered 4,206, against 3,311 for 1890; 127 arrests for highway robbery were made in 1891, against 88 in 1890.

A study of the lists will show that during 1891 the police force was vigilant in protecting the citizens and their property against the criminal and vicious classes.

During the year 8,312 vacant houses were at different times under the care and protection of the Bureau. Of these ten were entered and property to the value of \$565 was taken, of which \$325 was recovered. Three of the housebreakers were arrested and convicted.

It will be noticed that a diligent effort has been made to break up the illicit sale of liquors. The licensed vender, appreciating the value of the license, and knowing that his continuance in the business depends on a strict compliance with the law prohibiting sales to minors and to intoxicated

persons, avoids violating the liquor laws. The unlicensed vender, the "speak-easy" proprietor, must make his profit from indiscriminate sales. The effect of the determined effort to stamp out these unlicensed saloons is shown in the decrease of arrests for intoxication and disorderly conduct. In 1890 the arrests on these charges were 3,724, while in 1891 they were 2,278, a decrease of 446. A more stringent law which will stamp out the clubs, which are run only for the sale of intoxicants, will still further diminish the arrests from this cause and do much to insure the peace of the city.

The Detective Squad during the year recovered and restored to its owners property valued in all at \$39,318.22.

The total value of the property recovered by the Bureau was \$129,318.07.

In connection with the operations of the Detective Squad the necessity has been made apparent for the services of a clerk.

While photographs of noted criminals are taken and preserved in the detective rooms, together with a physical description of each, yet the Bertillion, a French system, adopted already in several American cities, is so much better than any heretofore in vogue, that I deem it of the utmost importance that the system should be adopted here as soon as possible. In conjunction I hope to have the Public Building Commission equip for the Police Bureau a Photographic Gallery in City Hall, wherein the photographs may be taken with more secrecy and security than is at present possible.

The appropriations and expenditures of the Bureau were as follows :

Amount appropriated for the year 1891.....	\$1,902,563 11
Disbursements.....	1,900,581 18
Balance merging.....	\$1,981 93

The receipts from all sources were . . \$997.24.

Fire Marshal.

The number of fires during 1891 were 1,327, a decrease of 39 as compared with 1890; but the fire losses reached the enormous aggregate of \$2,657,235, an increase over 1890 of \$1,154,456. While most of the increase is due to a few large fires, the figures invite study and are convincing that the question of an early transmission of an alarm from a fire is to-day of primary importance. Philadelphia has an elegantly equipped fire brigade, an electrical service scarcely to be improved on, and in most sections an abundant water supply for fire purposes. With these appliances the question of keeping down the fire losses resolves itself into the question of getting the fire apparatus on the ground at the earliest moment after the fire has started. Various devices, in the way of automatic and pneumatic alarms, have been brought to the attention of the department and are to-day receiving careful attention, and being studied and inquired into by the department, and by the fire underwriters, to the end that those may be adopted which will best accomplish the result desired. It is earnestly to be hoped that some appliance may be found, and generally adopted, which will bring such speedy intelligence of a fire to the fire houses as will enable the fireman to grapple with every fire at its very inception. With the Fire Bureau maintained at its present state of efficiency the annual losses would be very much diminished.

There were 13 arrests for arson during the year. They were all tried. The prosecutions resulted in 7 convictions and 6 acquittals.

Bureau of Fire.

During 1891 the efficiency of the Bureau was increased by the addition of eight men and the purchase of five new Silsby rotary engines. The universal verdict of those familiar with steam fire engines, and having to do with the Bureau, is in favor of these engines. They do their work well, are rarely out of order, and are light and easily handled. If Councils

will continue the annual appropriations made for the past four years, for a few years more, the Bureau will be thoroughly equipped with the newest and best apparatus.

The policy of replacing old and dilapidated buildings, used for fire stations, with new and modern houses ought to be continued, and, as rapidly as the finances of the City will permit, leased buildings should be abandoned and lots purchased and houses erected thereon by the City. The buildings now belonging to the City are kept in repair by the Bureau, and many of them are models of convenience and comfort. The men employed in the dangerous and hazardous business of putting out fires should be well and comfortably housed. The Chief Engineer's recommendations as to a new house for Engine No. 17 and for a truck near City Hall, are deserving of special mention, and will be pressed upon Councils when next year's appropriations are being considered.

The two police boats, the William S. Stokley and the Samuel G. King, have rendered efficient service in the fires near the river fronts. The "Stokley" needs extensive repairs. As far as the appropriation will permit these will be made, but it is a question worthy of the careful consideration of Councils whether it would not be economy to dispose of this boat and build a new one with more boiler capacity and larger and better pumps.

The "King" is equipped with a large Silsby pump, but the boiler will not generate enough steam nor with sufficient rapidity to work the pump to its full capacity. If it is possible to secure the money during the coming year to put in a new and better boiler it will be done.

The new fire boat, for which an appropriation has been made, will be contracted for as soon as a study has been made of the subject and the best model and design adopted. That it will prove to be a valuable aid to the Fire Bureau cannot be doubted.

The repair shops at Fire headquarters have been kept busy during 1891. The City has built all the hose carts and fire

ladders and made all repairs to all the apparatus there, beside building six patrol wagons and making all needed repairs to the patrol wagons and to the police vans. These wagons and vans never were kept in better repair, and the new wagons now just completed will compare favorably with the best work done in private shops.

The force at headquarters will have to be increased and more room secured. There is no way to secure additional space except to remove engine No. 17 from the headquarters, securing new quarters for the company elsewhere.

The officers and men in both the Bureau of Fire and the Bureau of Police have been vigilant, zealous, and brave. They have faced every danger. In the Bureau of Police, one officer, Elmer E. Findley, was killed by a burglar whose arrest he attempted, and another officer, John J. Nesper, going to Findley's assistance, was seriously wounded. In the Bureau of Fire, four men died of injuries received at or in going to fires, and ninety-three were more or less seriously injured.

For the care of the families of officers in these two Bureaus, killed in the discharge of duty, The City of Philadelphia Police Pension Fund Association and the Firemen's Pension Fund of Philadelphia have been formed by the voluntary association of the officers in each Bureau. That Councils may see their way clear to aid these two funds, to the end that they may be placed on a sure financial footing, is my sincere wish. Each man will be a better public servant when he enters on the discharge of a hazardous duty with the thought that his loved ones are to be cared for, if he loses his life in the doing of his duty. The generous public have given much to these two funds, but they are neither of them yet sufficiently large to meet the demands which will be made on them during the next few years. The people of this city whose property is looked after, and whose peace and security is protected by day and by night by officers serving for a moderate salary, should (and would, if their attention could be

called to the matter) place these two associations beyond the risk of failure.

The Bureau of Fire Escapes (composed of the Building Inspectors, the Fire Marshal, and the Chief Engineer) show by their report that considerable progress has been made in the matter of the erection of Fire Escapes. Wherever large buildings are erected the fire escapes are special features provided for in the plans and contracts. It appears that there is a desire to comply with the law in every particular.

The number of escapes erected during 1890 was 53.

Electrical Bureau.

The able report of the Chief of the Electrical Bureau will well repay careful study. No branch of the service in this Department is more thoroughly equipped, more ably managed, or more productive of good results. The vast majority of our citizens have no idea of the work done by our Electrical Bureau. Steadily and systematically the underground conduits for electric lighting, for telephone and telegraphic communications are being extended on the main streets, and in furtherance of a well matured and comprehensive plan, without bluster or noise, the Bureau is every day demonstrating the entire feasibility of underground conduits. One has but to glance at the electric lighting on Spring Garden street, and on Green street and on other streets, to conclude that electric light conductors will and do work admirably when buried.

The amount of work done by the Bureau in 1891 is shown in detail in the report.

Some of the Chief's recommendations require brief mention.

As to the problem of arc lights for street lighting :—Gas as an illuminant for street lighting is being replaced rapidly by the electric light. Every city, both here and abroad, is extending the electric light service. Some cities own their own plants; most of them secure the lights by contract with private companies. If the limits of this report would permit it, a study of the different systems both here and abroad would

be extremely interesting. Let me call attention, however, to three systems, illustrating three ways of securing electric lighting. One is the Chicago system, another that in vogue in Paris, and the third the Philadelphia plan.

The Chicago System was entered upon in 1887, when a small appropriation was made to light the river front. A small outfit was purchased, and operations begun in an abandoned fire house. The plan was found to work so well that Chicago embarked upon a system embracing the whole city. The plan adopted is as follows: The old city, comprising about forty-four square miles, is divided into twelve electric light districts. For each district a power station is erected as near the centre as possible, and from each of these stations a main subway is built, extending across the district from boundary to boundary with main feeders run out at right angles. The entire system is underground. The whole system when completed will contain 7,350 lights. In 1890 the City had already in operation 930 arc lights of 2,000 candle power each. In that year the system had been partly perfected in four districts. Chicago was then bending her entire energies to complete the system in time for the World's Fair. With the system but partially completed, it was found that the average annual cost of one 2,000 candle power arc light in 1890 was, according to one report, \$83 per light, but according to the Census Bulletin, No. 100, \$68.00 per light. The estimated average annual cost of lights when the system shall be completed is \$50 per light per annum.

Paris is one of the best lighted cities in the world, using gas lamps in profusion and electric lights in great number. The City is supplied by private lighting companies, who secure the privilege of putting their wires underground on certain conditions; one of these conditions being that the municipality shall be supplied with electric light at a cost agreed upon by a commission fairly chosen; which commission allows the private corporations a fair commercial profit upon the light furnished.

The Philadelphia Plan is to purchase light from companies who are practically granted by the city a monopoly, and who may charge fifty cents or a dollar per night per lamp as they choose. The privileges which they enjoy of occupying highways, the opening of which has cost the city millions of dollars since 1854, are granted to them by the city practically without any stipulation for any return ; and with a short-sightedness which can scarcely be comprehended, there is no reservation of any power in the city to regulate the cost of the commodity which these companies are alone placed in position of furnishing. That these companies, enjoying the privileges of occupying the streets, should render some return, and should furnish arc lights to the city at a fair profit, would seem to be too plain a proposition to require argument to support it.

The several electric light companies in Philadelphia enjoy privileges which are not all alike. Most of them are "over-head" companies though some of them are confined to underground conduits entirely. Some are required to give to the city a certain number of arc lights free ; others to wire and light school, police, and fire-houses in their territory. Two are required to pay five per cent. of their net earnings to the city, and several enjoy the privilege of putting down conduits on condition that they give two ducts to the City free of cost. Some give no return whatever to the City for their privileges.

The whole subject should, in my judgment, be governed by a general ordinance, which will bear upon all alike within geographical limits, and which will look to a gradual reduction of the number of the poles now up, and a gradual extension of the underground system. This general ordinance ought to provide for the furnishing of light to the City by these companies, licensed by the City, at a fair price ; a price to be fixed by a commission impartially selected, which, while allowing the companies a fair commercial profit, will protect the City from extortion.

This solution of the public lighting problem should be a

temporary one only. The City ought to own and control its own lighting plant. If the finances of the City will not permit this at present, let Councils make as liberal appropriations as possible for the extension of the underground system, and for the erection of the poles and mast arms necessary to support the lamps. This part of the plant will be gradually procured, and eventually it will be necessary only to provide the dynamos and supply the stations and power.

Underground Wires.—No problem perhaps more agitates the public to-day than the removal of the net work of overhead wires which disfigure our streets and are in many ways an element of danger. These wires mar the beauty of our streets. No one has to do more than glance out Green street, or Diamond street, or Spring Garden street, and then down Market street from the City Hall to observe the vast difference between a street free from overhead wires, and one burdened with them. Aside from this consideration, however, they constitute elements of danger. They are dangerous in themselves. The light telephone wire crossing an electric light and power wire will carry a current which means destruction to life and property. The overhead wires hinder and impede the fireman in extinguishing fires, and this becomes the more important as tall buildings increase. The only argument for the further maintenance of overhead wires is one of economy, and this concerns not the public but the companies owning the wires. Even on the score of economy the argument has to do only with first cost, for the overhead system is much more expensive to maintain than the underground.

The report of the Chief shows that there are 1,871 arc lights, including 50 owned by the Girard Trust. There are 12,982 poles in the city, of which 7,452 belong to private corporations and 5,530 belong to the city. There are 3,556 miles of telegraph and telephone wires, and 652 miles of electric light wires in the city. In addition to that the city has 837 miles of overhead wires, making a total of 5,046 miles of overhead wires in the city.

There are 1,474 miles of underground wires of which the city owns 136 miles. There are also 14,394 attachments by private corporations to city poles, for which the city receives 50 cents each per year, or a total of \$7,197.

The progress made in laying underground wires is most satisfactory, and, considering the comparatively small outlay, shows excellent results. During 1891 there were laid by the city :

3,991 feet of six-inch conduits and
4,633 " " four " "

The various companies by their returns show, that together with that laid by the city there are 645,464 feet of underground conduit (an increase over last year of 25,601 feet) of which the city owns 59,080 feet, (an increase over 1890 of 11,073 feet).

The number of feet of duct laid underground by the following companies are :

American Telegraph and Telephone Company.....	1,925,812
Bell Telephone Company.....	1,127,047
Frankford Ave. Merchants' Electric Light Co.....	68,850
Merchants' Electric Light Company	38,160
Making a total of.....	3,159,869 feet.

The number of miles of wire in use by telegraph, telephone, and electric light companies, together with the city wires, overhead, is 5,046.48, a decrease of 511.03 miles.

The number of attachments to city poles are 14,394, an increase of 498. The number of miles of wire placed underground during the year 1891 was 1,474.39. The number of poles used by Telegraph, Telephone and Electric Light Companies (exclusive of those along railroads) on the highways of the city is 7,452, an increase of 825. The number of city poles is 5,530, an increase of 221, making a total of 12,982, or an increase of 1,050 over that of 1890. The number of messages transmitted over police wires was 324,202, an increase of 21,582 over 1890. Number of telephone messages 14,613.

The number of calls for patrol wagon 41,124, of which 25,525 were for the conveyance of prisoners, and 4,563 for the conveyance of injured and sick people and the balance were miscellaneous.

Appropriations	\$144,358 45
Disbursements	141,249 58
Merging.....	<u>\$545 76</u>

Amount carried over on the books to 1892, \$2,563.11.

Bureau of Health.

This important Bureau, dealing with the sanitary condition of the City and the protection of the public health, has been maintained at a high point of efficiency,

The report is detailed and interesting. Some of the main features should have mention in this report.

Milk Inspection. At present there is one Inspector. He has two assistants and three collectors. These officers have performed their duties zealously and with great success, but there are too few of them to accomplish the good results which should flow from the enforcement of the law. I would earnestly recommend an increase by Councils in the number of Inspectors.

During 1891 the Milk Inspectors performed the following work :

Number of inspections.....	10,052
Number of quarts inspected.....	174,519
Number of quarts condemned.....	12,285
Number of quarts adulterated with water.....	8,832
Prosecutions.....	27
Convictions.....	21

The Vaccine Physicians report 12,500 cases of successful vaccination, an increase over 1890 of 1,958.

In the House Drainage Bureau, 5,508 plans of new buildings and 4,744 plans of old buildings were submitted and approved, and 33,966 visits of inspection were made.

There were 11,519 complaints of nuisances received. Of these

1,325 were anonymous
 762 were referred to other Bureaus
 9,432 were referred to the District Inspectors
 9,057 were determined to be well founded and orders given
 to abate the nuisance
 6,539 were abated after notification.

Most of those not abated by owners were abated by the Board, and in this work \$13,044.87 were expended. Some work was carried over until this year, owing to the exhaustion of the appropriation.

Sanitary Inspectors. There are numerous diseases contagious but preventable. Our City has during the past few weeks in marked degree, and during the whole year in some measure, suffered therefrom. That these diseases could be stamped out, or at least be prevented from spreading, by proper sanitary precautions there can be no question. The Bureau of Health has one Medical Inspector. One man cannot, of course, handle all of these cases. Councils should either authorize the appointment of a number of Assistant Medical Inspectors, or place at the disposal of the Bureau of Health an emergency fund to be drawn on for the temporary employment of such inspectors, if need for their services should arise.

The fact must be borne in mind that in some sections of our City the population is dense, and is growing more so every day. The people huddled together there are of the poorer classes. They are, in the main, immigrants who have been in our midst but a little time. They are careless of the rules of health and ignorant upon the subject. The best interests of the entire community demand that there be frequent sanitary inspections of the districts in which population is densely massed. The number of cases of infectious diseases reported to the Health Officer were 10,902. These reports were placed in the hands of the Medical Inspector, who selected the cases requiring action. The places requiring disinfection

were placed in the hands of the Disinfector, who made 2,844 inspections.

Meat Inspectors. My attention being called to the fact that diseased cattle were being slaughtered and the meat sold to the people, a Detective and a Patrolman were detailed from the Bureau of Police and a Veterinarian from the Bureau of Health to endeavor to enforce the law, and protect the citizens from the danger of eating diseased meat. With this small force of three men much has been accomplished up to this date. There have been prosecutions in thirty-one cases and in every instance there has been a binding over to Court. A greater good has been accomplished, however, than the arrest of these offenders, for the inspections have been so conducted as to convince the drovers and dealers that their best interests require a rigid enforcement of the law. They have, almost to a man, given to the Inspectors aid and assistance, and to-day as much is being accomplished in Philadelphia in the direction of the prevention of the sale of diseased meat, with the small force and a law inadequate for the purpose, as though we had a large force and modern legislative enactments on the subject.

That there is pressing necessity for a law which will either enlarge the powers of the State Board of Health, or give to the City more ample authority in the premises there can be no doubt. From the very kind proffers of assistance received from different medical men, medical societies and schools it is to be hoped that some well considered and comprehensive act will be drafted and introduced into the Legislature early in the next session, which will have the support of all those interested in preserving the health of the people and meet the approval of the drovers and dealers as well.

The Lazaretto.—For almost a century the City has maintained a quarantine station at its present site, on the river bank, above Darby Creek, in Delaware County. The question of its removal was agitated in the Legislature last winter, and resulted in the passage of a resolution, approved by the Governor on the 21st of May, 1891, authorizing the appoint-

ment of a Board "to communicate with the proper authorities of the Federal Government, or of any State, with a view to obtaining such concessions as will enable the Board of Health of the City of Philadelphia or the Commonwealth of Pennsylvania to secure a suitable site for a quarantine station at some point remote from the centres of population on the Delaware River. The Commission shall also inquire as to the feasibility of establishing joint quarantines for the protection of the ports on the Delaware River and Bay, to be controlled by the several States bordering thereon."

The Governor named Henry Leffman, M. D., Benjamin Lee, M. D., John Huggard, and Andrew Osborne, and these, with the Governor, comprise the Commission. What progress they have made I do not know, but that they will give the subject that attention and study it deserves cannot be doubted. The question of the maintainance of a strict quarantine at every port of entry concerns not merely the people of that port, but in these days of rapid transit the people of distant towns and cities. A case of malignant disease in its incipient stage landed at the port of New York or Philadelphia may develop in Pittsburg or Buffalo or Cincinnati, and lead to a pestilence. The question is one which concerns the whole State as well as Philadelphia, and it is earnestly to be hoped that at no stage in the discussion of the question will local or private interests be permitted to influence the decision.

The appropriations to the Bureau were.....	\$113,770 08
The expenditures were.....	113,125 97
Balance merging.....	\$644 11

The receipts from permits, fees, repayment of costs for removing nuisances, etc., amounted to \$45,499.03.

Bureau of Building Inspectors.

The operations of this Bureau show a decrease in permits issued and of receipts as compared with 1890. There were

4,272 permits issued, covering 9,142 separate operations, showing a decrease in permits of 210, and in building operations of 3,136.

The total value of buildings and alterations authorized by permits was \$20,088,236.50. The number of visits made by the Inspectors was 27,182, and the number of condemnation notices issued were 741.

Expenditures.....	\$20,549 68
The total revenues of the Bureau.....	20,529 64
Showing a deficit of.....	\$20 04

That portion of the report of the Building Inspectors referring to frame buildings is especially worthy of consideration. In this connection I would call your attention to the communication I addressed to you on the subject on January 19th, 1892, which was transmitted by you to Councils on January 28th, 1892.

The subject is one which should receive the thoughtful consideration of Councils. I would urge the recommendation made by Mr. Stokley in his last report, that with reference to frame buildings "fixed regulations should be established covering the whole city, and rigidly adhered to, and all special legislation should be avoided."

Bureau of City Property.

I strongly urge the views of the Chief of this Bureau as to a new Morgue. The question of a proper structure is being considered, and as soon as sufficient data are procured the matter will be submitted for your consideration.

The matter of the revenue to be derived from the City's wharves is one which demands attention. Wharf properties on both rivers are becoming very valuable, and the City should be in receipt of a handsome revenue from rents from its wharves. A moderate sum judiciously spent in improving the City's ground along the river fronts will, I am satisfied, yield good returns.

The advisability of the City owning the various buildings occupied for municipal purposes has already been referred to. The rents the City pays are, many of them, exorbitant, and could the money be spared to build houses to take the place of those rented the service would be improved and the City save money. By the removal of the Recorder of Deeds office to the City Hall the City saved in one item \$18,500, or capitalizing this at the rate the last City loan was placed at, three per cent., over \$600,000.

The revenue of this Bureau for the year was \$82,571.47.

There were issued vender's licenses and farmer and soldier certificates to the number of 5,280. The number of persons using the public baths during the year were 1,284,647, an increase of 75,716 over that of 1890. The number of bodies cremated at the crematory at the City Burial Grounds were 4,392.

The amount appropriated for the year was.....	\$449,297 96
The amount expended was.....	425,561 08
Transferred.....	20,198 35
Merging.....	3,538 53

Bureau of Boiler Inspection.

The number of boilers inspected and approved during 1891 was 2,979, a decrease of 27 as compared with 1890. The number of certificates issued was 2,540, a decrease of 9. The number of new boilers was 500, an increase of 49; and the Bureau has now under its supervision 3,334, an increase of 328. Approvals were withheld in 14 cases.

The number of explosions occurring during 1891 was two, resulting in two deaths. The causes of these explosions are set out at length in the report.

Receipts from all sources.....	\$17,884 75
Expenditures.....	14,568 44
Excess over expenditures.....	\$3,316 31

In conclusion, I desire to extend to you my heartiest thanks for your uniform kindness and your aid and support in my new and arduous duties. For the Chiefs and Subordinates under me I have only praise. I have found them all faithful in the discharge of their several duties, and ever ready to give any assistance in their power.

I cannot close my report without extending my thanks to Major William H. Hastings for his assistance in translating the many communications in foreign language received by the Department; to the District Attorney, the City Solicitor, and their Assistants, for their ready co-operation and aid in many matters, and to the Director of the Department of Public Works, for his cordial assistance to this Department, rendered whenever the opportunity presented.

I am, with sincere respect,
your obedient servant,

ABRAHAM M. BEITLER.

ANNUAL REPORT
OF THE
ELECTRICAL BUREAU,
For the Year 1891.

ANNUAL REPORT
OF THE
ELECTRICAL BUREAU,

For the year ending December 31, 1891.

DAVID R. WALKER, Chief.

Philadelphia, February, 10, 1892.

ABRAHAM M. BEITLER Esq.,

Director of the Department of Public Safety.

DEAR SIR :—The report I have the honor to transmit herewith embodies the operations of the Electrical Bureau for the year 1891, being the thirty-sixth in its history, and my eighth as its Chief.

While presenting the accompanying report allow me to call your attention to several subjects which, in my judgment, require the consideration of Councils.

First.—As to the advisability of the City owning its own plants for the lighting of our highways by electric arc lamps. On several previous occasions I have given the matter prominence in my reports, and it occurs to me that delay in adopting such a course but makes the question a more difficult one to handle. As the number of lamps increases, the necessity arises for the erection of more poles and the suspending from them of wires, largely in addition to those already in use; in some cases two lines of poles, and the accompanying wires being erected on many of our streets.

Were the City owner of capacity sufficient for this purpose, many of the annoying features incident to the construction by private corporations, particularly where there are competitors in the same territory, would be avoided.

Again. Should the City be the possessor of these plants, steps could be taken toward making the lamps, poles and fixtures a permanency by placing the circuits beneath the surface of the streets as rapidly as circumstances would admit. The overhead service necessary would be of the most approved pattern, the best of insulated wires used as a protection against possible contact with other wires, and the interruptions to the proper lighting of the streets incident to such contact be in a great measure avoided. Apart from all this, the profits now derived by contractors, accruing to the City would revert to the support of the plants after their installation.

I would also direct your attention to, and repeat, the recommendation made in a former report that, until the event of placing the wires underground, the City own and erect its own poles for public lighting. With reference to this a step has been made in that direction by the insertion of an item in the annual appropriation to this Bureau for the coming year for the erection of posts on corners, upon which the lamps are to be placed. The City owning these posts it can, at the expiration of the contract, should the award be made to others than those then occupying it, remove the lamps and wires and replace them by those of the successful contractor. While this is a step in advance, it does not cover the recommendations made, which is for the City to own, erect and maintain all the poles necessary for this work, for the use of which the City would derive a revenue; and at the same time place it within the power of the Department to remove all wires and fixtures of those who are unsuccessful in obtaining a renewal of their contract.

Second.—The use of overhead wires for electric light and power purposes is recognizedly a dangerous factor, particularly in large cities like our own, where there are so many and varied electrical interests, necessitating the erection of a vast net work of wires, any one of which, coming in contact, directly or indirectly, with a wire carrying a current of high tension would serve to divert its course. There can be no accounting

for the possible injury to persons, or damage to property, that may accrue therefrom. The only remedy against such possibility is the placing of all wires of whatever nature beneath the surface of the streets. While the City, through its Electrical Bureau, has fully demonstrated the entire practicability of underground wires for all purposes, the authorized erection of many new poles and the stringing of large quantities of wires still go on. The placing of wires underground is a subject that has been broadly commented upon in former reports and is one in which all-alike have an interest.

The Electrical Bureau is at present engaged in laying cables, containing conductors, to replace overhead wires on a number of our main streets, the object being to replace this overhead service with underground trunk lines, from which branches will lead to the various points necessary for the requirements of the service under our control. It is the intention, as rapidly as circumstances will allow, to further extend this service, with a view of removing from as many of the principal streets as possible the lines of poles and wires now in use for the purposes for which the cables are being laid. In view of the fact that the City is making advances in this direction, I deem it but proper to recommend that steps be taken, by Ordinance, to have the various companies, occupying the highways with poles and wires, to place them beneath the surface of the street, where they will be free from the annoyance due to interruptions from crossed wires, storms, etc., and remove from the streets the present forest of poles and net-work of wires. In my judgment, and from the present perfected condition of underground cables, there is no reason why they could not be so placed, with perfect satisfaction to all concerned. That no hardship be entailed the city should be territorially divided, and all should be required to have their wires below the street surface within a stated period.

Pending the passage of an Ordinance to that effect, and, in any event, I desire to draw your attention to the large number of wires crossing our streets, that are illegally constructed,

poorly placed, and a constant menace to other and decidedly more important electrical services. While ordinances have been passed, involving a penalty for such illegal construction, they have not the same effect that would be given by an Act of Assembly, for the reason that they call for the payment of a fine to be collected as such fines are by law collectible. In the great majority of cases the parties arrested are unable to pay; the Magistrate, having no alternative, releases them and they, recognizing the inability to enforce the ordinance, return to the work and while the police are not watching complete it. This is a growing evil, and one that seriously menaces the safety of all, as there is no surety that such wires will not fall, entangling themselves among electric light and other wires, and convey the currents from those of high tension to all with which they may be in contact, into our offices, homes, or workshops, seriously menacing the welfare of those using the instruments to which they may be connected. The only remedy for the erection of such wires, is, in my judgment, the passage of an Act by our Legislature making it a misdemeanor punishable by fine, or imprisonment, or both. A few salutary lessons under such a law would be the means of stopping the erection of such dangerous constructions.

The pronounced success attending the laying and use of underground cables for all electrical purposes, by this Bureau, and the anxiety evinced by the officers of the Department and Bureau to obtain the necessary appropriation for adding to and extending those already down, most certainly indicates a firm belief in their practicability as an earnest of that belief. The Electrical Bureau has placed under ground during the year six thirty-seconds (6-32) insulated, braided, and painted electric light cables, as follows:

Spring Garden street, between Sixth and Broad streets, has been equipped with four thousand eight hundred and forty-one (4,841) feet, and with sixteen thirty-foot iron poles, and sixteen fifteen-foot mast arms to furnish the facilities for lighting sixteen arc lamps. Current was first passed through this circuit July 27th, 1891.

Also with a view to placing the underground electric light service on Locust street east of Fifteenth street, to Washington Square, before the street was laid with improved pavement, four thousand six hundred and sixty-nine (4,669) feet of this cable were laid and fifteen thirty-feet posts were placed in position. As yet no current has passed through this cable.

Green street, from Broad street to Twenty-fifth, and Twenty-fifth street, from Green street to Spring Garden street, where it connects with the cable laid during 1890, were also served with six thousand one hundred and seventy-three (6,173) feet of this cable, and with twenty-two thirty feet iron posts and twenty-two mast arms complete. Current was first passed through this service September 19, 1891, the street presenting a decidedly brilliant appearance.

One thousand seven hundred and twenty-five (1,725) feet of this cable were laid on Broad street between Spring Garden and Barclay streets, to connect the lamps on Broad street at Mt. Vernon and Wallace streets on underground service; and also to continue the cable on Spring Garden street from Sixth to Broad street, to Columbia avenue, where it was attached to the air line.

The old cable on Broad street, between Fairmount avenue and Brown street, three hundred (300) feet; on Broad street, from Parrish to first lamp above, one hundred and ninety-seven (197) feet; and on Broad street, between Girard avenue and Poplar street, three hundred and ninety-two (392) feet, was replaced with 6-32 insulated cable.

Seven thousand four hundred and three (7,403) feet of thirty-one conductor cable for telegraph and telephone purposes were laid from City Hall, via Filbert, Thirteenth, Chestnut and Broad streets to Washington avenue; and four thousand six hundred and fifty (4,650) feet of nineteen conductor cable on Broad street from Washington avenue to McKean street. The laying of this cable marks the beginning of a permanent system of trunk lines, from which will branch cables of smaller dimensions, filling the requirements of the various electrical systems under the supervision of this Bureau

A piece of nineteen conductor cable, about eighty-five (85) feet in length, was laid from the pole in front of the Twenty-seventh Police District Station-house into the cellar, for carrying the wires from the street into that station.

Five hundred and fifty (550) feet of six conductor braided and painted bunched cable were laid in the conduit on Broad street, between Montgomery avenue and Berks street, and five hundred and eighty (580) feet on Broad street, between Susquehanna avenue and Dauphin street, to replace the cable under the sidewalk in the pitch box that had been damaged by picks during excavations, and the laying of new and improved pavements.

Two hundred and thirty-six (236) feet of six conductor anti-induction, painted, lead-covered cable were laid on Broad street, between Erie and Germantown avenues, replacing that which had been damaged.

Five hundred and eighty-two (582) feet of three conductor, clover leaf cable were laid for telephone purposes on Market street, in the conduit of the Penn Electric Light Company, between Tenth and Ninth streets, and on Ninth street to the Mayor's private office.

One thousand and four (1,004) feet of painted clover leaf cable were laid on Girard avenue, between Broad and Sixteenth streets, and three hundred and thirty-four (334) feet of three conductor bunched, painted and braided cable on Sixteenth street, south from Girard avenue to Cambridge street, to connect the residence of the Director of Public Safety by telephone with the City Hall via the six conductor cable on Broad Street.

The residence of the Director of Public Works was also connected with the office of this Bureau for telephone purposes, by means of thirty-five (35) feet of Brooks' three conductor lead-covered cable, which was connected with the Brooks' three conductor lead-covered cable in the conduit of the American Telegraph and Telephone Company.

Forty-seven thousand one hundred and fifty-eight (47,158)

feet of telegraph and telephone cable have been ordered, are on hand, and will be laid and connected as rapidly as possible. This cable will be distributed as follows: On Broad street, between City Hall and Diamond street; on Ridge avenue, between Broad and Twenty-ninth streets; on Market street, between City Hall and Thirty-second street; on Lancaster avenue, between Market and Fiftieth streets; and on Woodland avenue, between Market and Thirty-seventh streets; being a continuation of our plan for the laying of trunk lines for municipal electrical purposes.

During the year this Bureau has laid fourteen thousand nine hundred and ten (14,910) feet of three conductor cables on the first floor; fifteen thousand three hundred and six (15,306) feet of three conductor cable on the second floor; and twenty thousand one hundred and fifty-one (20,151) feet of three conductor cables on the sixth floor of the City Hall, by the request and at the expense of the Public Building Commission.

Conduits (City).

The Electrical Bureau has laid during 1891 three thousand seven hundred and twenty-one (3,721) feet of six duct conduit on Spring Garden street, between Sixth and Broad streets, with twelve man-holes and sixteen thirty feet iron posts and mast-arms.

Also three thousand six hundred and nineteen (3,619) feet of six duct conduit on Locust, between Fifteenth street and West Washington Square, with nine man-holes and fifteen thirty feet iron posts. This latter conduit was laid with a view of preparing the street for the electric lighting and municipal telegraph and telephone service before the patent pavement was laid.

Four thousand six hundred and thirty-three (4,633) feet of four duct conduit was laid on Green street, between Broad and Twenty-fifth streets, and on Twenty-fifth street, between Green and Spring Garden streets, connecting with the service

laid on Spring Garden street during 1890, with thirteen man-holes and twenty-two thirty feet iron posts and mast-arms.

Forty-five (45) thirty-feet iron posts and mast-arms have been erected on the west side of Broad street, between Sansom and McKean streets, replacing all the twenty-five-foot posts which had been previously erected, but were too short to allow the suspending of the lamps over the streets on mast-arms.

All the lamps on Broad street south of Sansom street to McKean street have been transferred to the west side of that thoroughfare, and a number of intermediate posts erected for a more thorough system of lighting it.

Thirty feet iron posts and fifteen feet mast-arms have been erected as follows :

West side of Broad street, opposite Green street ; Broad and Mt. Vernon streets, Broad and Wallace streets, Broad street and Fairmount avenue, replacing one twenty-five feet in length ; Broad and Brown streets, replacing one twenty-five feet in length ; Broad above Brown street, Broad above Parrish street, replacing one of twenty-five feet ; Broad and Poplar streets, replacing one of twenty-five feet ; Broad street and Girard avenue, replacing one of twenty-five feet ; Broad and Master streets, replacing one of twenty-five feet ; on Diamond street, between Seventeenth and Eighteenth, a new thirty-foot post and fifteen-foot mast-arm and a fifteen-foot mast-arm on the thirty-foot post at Broad and Parrish streets. A change of grade in the street and the laying of a new pavement necessitated the lowering of the city conduit on Broad street, between Moore and Mifflin streets. A new man-hole was built on the north side of Girard avenue at Broad street, for the better and more convenient distribution of the underground telegraph and telephone systems. Junction boxes have been introduced into the service at Broad street and Girard avenue, Broad and Diamond streets, and Broad street and Indiana avenue.

Conduits (American Telegraph and Telephone Company).

The underground structures of this company have received no further extension. Their completed system show they have two hundred and sixty-one thousand nine hundred and ninety-four (261,994) feet of conduit, or one million nine hundred and twenty-five thousand eight hundred and twelve (1,925,812) feet of duct. A complete list of the streets in which they are laid was given in my report for 1890.

Conduits (Bell Telephone Company).

As the limit of time granted them by Councils for the completion of their underground system had expired, the conduits of this company have not been further extended. As shown in my report for 1890, they have eighty-nine thousand four hundred and seventy-six (89,476) feet of conduit, or one million one hundred and twenty-seven thousand and forty-seven (1,127,047) feet of duct laid in accordance with the list of streets given in the report.

The Columbia Electric Light Company, the Underground Electric Light and Power Company, the Keystone Light and Power Company, the Edison Electric Light Company, and the Penn Electric Light Company have made no further extensions to their systems of underground conduits.

By the dissolution of the Electrical Construction and Maintenance Company the underground structures, laid by them, revert to and become the property of the City.

The Frankford avenue Merchants Electric Light Company. The underground conduit system of this company has been extended by the addition of five thousand eight hundred and ninety (5,890) feet, making a total of seven thousand six hundred and fifty (7,650) feet, or sixty-eight thousand eight hundred and fifty (68,850) feet of duct now in operation by them?

The Merchant's Electric Light Company, of North Front street; the addition of seven hundred feet increases the total

of underground conduit laid by them to six thousand two hundred and seventy-seven (6,277) feet, or thirty-eight thousand and one hundred and sixty (38,160) feet of duct.

Conduits (Total Returns).

The returns made by the various companies of the underground conduits, together with that laid by the City, show there has been placed underground six hundred and forty-five thousand four hundred and sixty-four (645,464) feet, an increase of twenty-five thousand six hundred and one (25,601) feet, of which the City owns fifty-nine thousand and thirty (59,030) feet, an increase over last year of eleven thousand nine hundred and seventy-three (11,973) feet. As stated in my last report, the Penn Electric Light Company and the Edison Electric Light Company have had placed underground, for the use of the City, thirty-eight thousand nine hundred and eighty-two (38,982) feet of wood and iron conduits, with the necessary manholes giving access to them.

Police Telegraph.

No branch of Philadelphia's municipal electrical system is more entitled to the earnest care and watchfulness given it than the police telegraph, the artery through which flows the wishes and commands of those entrusted with the guidance and direction of the officers and men of the Bureau of Police. An earnest expression of the opinion of its usefulness may be obtained by a glance at the figures of the returns from the various stations, which show an increase of twenty-one thousand five hundred and eighty-two (21,582) messages over the business done in 1890. While there has been no extension made to this service, much has been done in the way of improvement; old wires have been renewed, the lines equalized as to resistance, instruments have been overhauled and renewed, and where faults have occurred on the circuits they have been speedily remedied and the service restored to its always efficient condition.

The remodeling of the First District Station House necessitated the temporary removal of the instrument to the front part of the building. On the completion of the repairs to the building, the service was transferred to its permanent position in the Roll Room. The newly-rebuilt station house at Tenth and Taylor streets was fitted up for the temporary occupancy of the Twenty-fifth District officers while the old house at Moyamensing avenue and Dickinson street was being remodeled.

The instruments at the old Twenty-seventh District Station House were, late in the year, transferred to the new building next door.

Police Signal and Telephone System.

In my last report, for 1890, I noted in detail the plans formulated and used by the Bureau for overcoming the induction from electric-light currents, and also for the introduction of an extra key for the insurance of the answer back being received by the officers when using the boxes in this system, and that the Bureau intended to adopt the improvements to all the districts covered by the patrol service. In furtherance of this the boxes have been prepared and the wires placed in parallel metallic circuit in the following districts: the First, Second, Seventeenth, Eighteenth and Twenty fifth; and the old push buttons taken out and the extra battery and short circuit key placed in the following districts: First, Second, Fifth, Eleventh, Seventeenth, Nineteenth, Twenty-third and Twenty-fourth. It is our intention to continue adding the improvements mentioned to the various districts covered by this system until all have been fitted up. One new patrol station was established during the year, the Tenth District, with Central Station at Front and Master streets, being equipped with twelve street stations. The boxes and circuits of this service were prepared against the inductive effect of electric light and other wires, and are giving perfect service. This service was extended in the First District by two boxes;

in the Eleventh District, by three boxes; in the Fourteenth District, by two boxes; in the Fifteenth District, by one box; in the Sixteenth District, by three boxes; in the Seventeenth District, by four boxes; in the Twenty-third District, by two boxes, and in the Twenty-sixth by one box.

Owing to the great length of the Germantown Patrol Service, thirty-one (31) miles, I deemed it advisable for its betterment to divide it into two circuits. The division made necessitated the placing of an extra register, etc., in the Fourteenth District station house. The change proved decidedly beneficial, as the two circuits are working with little or no trouble, whereas, previous to its being divided, the complaints, particularly during wet weather, were continuous. A speaking tube was added to the equipment of this station, between the stable and operating room, for the transaction of the business incidental to patrol work, the telephone, a temporary connection, having been removed.

The patrol service of the Twenty-fifth District has been removed to the newly remodeled station at Tenth and Taylor streets. The instruments in the First District which were temporarily located in the front of the station house, during the alterations to the building, were on the completion of the repairs removed to the roll room.

The Tenth and Eleventh Districts, and the new quarters of the patrol wagon No. 15, were placed in telephonic communication with one another for patrol work.

By request of the officers of the Third National Bank, at Merrick and Market streets, the patrol box located in that institution was removed. Subject to the regular yearly rental of one hundred dollars, a patrol box has been placed in the library of the University of Pennsylvania, at Thirty-fourth and Spruce streets, and connected with the Twenty-first District patrol service.

The following list gives the number of stations in each district together with the private institutions :

Patrol Stations.

Patrol.	Police Districts.	Banks, etc.	Total Boxes.
No. 1	Third and Fourth.....	2	19
" 2	Twenty-first.....	2	24
" 3	Sixteenth.....	1	27
" 4	Fifth.....	2	14
" 4	Sixth and Twentieth.....	1	16
" 5	Second.....		13
" 5	Nineteenth.....	1	8
" 6	First.....		8
" 6	Seventeenth.....		13
" 7	Twenty-fifth.....		17
" 8	Twenty-second.....		19
" 9	Twenty-third.....	1	17
" 10	Twenty-fourth.....		15
" 11	Ninth.....	1	14
" 12	Fifteenth.....		10
" 13	Eighteenth.....		11
" 13	Twenty-sixth.....		10
" 14	Fourteenth.....	1	33
	Tenth.....		12
	Eleventh.....		11
	Totals.....	12	311

Fire Signal and Telephone System.

While not interfering with the signalling the electric light induction on these circuits at night is so great as to materially interfere with the transmission of telephonic messages. On the greater number of circuits working under this system it is our intention, with a view of overcoming this induction, as rapidly as circumstances will admit, to change them from ground terminals as at present constituted to parallel metallic circuits.

A change of residence of the Chief of the Bureau of Fire, the removal of the engine company from the House of Correction to their new quarters at Holmesburg, and of the engine company at Chestnut Hill to their new house, constitute all the changes made in this branch of the service.

Fire Alarm System.

The system of electrical testing now in use by the Bureau indicated that a number of the wires connected with this system were of such a high conductivity resistance as to be unwarranted by their length. A thorough inspection and test evinced the fact that many joints in the wires were faulty and required soldering, and that in some places the wires required renewing. After a thorough and systematic course of repairs the resistance of the circuits were brought to a point consistent with their length, adding greatly to their efficiency.

The addition of an eight inch gong in the residence of Assistant Engineer Garrity, and an eight inch gong placed at private expense in the station of the Philadelphia Traction Company at Twenty-third street and Columbia avenue; the removal of the small gong of the Chief Engineer of the Bureau of Fire; the removal of the fifteen-inch gong from the old engine house at the House of Correction to the new one at Holmesburg, and the removal of the fifteen-inch gong from the old to the new house of the Chemical Company at Chestnut Hill constitute the additions to and the changes made in this service. No interruptions to the accuracy of the transmission of the alarms over these circuits have occurred. The few individual complaints, generally of a local and mechanical nature, were quickly and readily adjusted.

Fire Signal System.

As in the fire alarm system a systematic course of repairs to the wires connected with this service placed them in complete order; requiring, as they do, to be in perfect working

condition at all times, it is our intention to still further insure them against possible interruption by protecting them by means of a shielded and insulated wire from coming in contact with trees, which are a source of considerable escape of current, particularly during wet weather.

The rapid development of building operations in all sections of the City create a never ceasing demand for the extension of this service. A number of boxes added yearly serve to keep pace with this demand, and in case of necessity place all within easy reach of the Bureau of Fire.

Fire-signal boxes have been placed in the establishment and at the expense of George V. Cresson, Eighteenth street and Allegheny avenue, and of the Girard avenue Theatre-Company, Marshall street, and Girard avenue, connections being made with the City circuits.

Telephones in the City Service.

Of all the many and varied systems under the control and supervision of this Bureau, there are none that require so much attention at our hands as the telephone service of the City.

The switch-board purchased and placed in position during 1890 has been the means of increasing the rapidity of business communication between the various municipal offices connected with it. The value of the service rendered by the operation of this board may be seen by referring to the table showing the number of messages received and sent and calls made on it during the year.

The residence and private office of the Mayor and the residences of the Directors of Public Safety and Public Works, the offices of the District Attorney, the Clerk of the Quarter Sessions, the City Ice Boats, the Bureau of Lighting, the Dynamo rooms of the Public buildings, the Children's Homeopathic Hospital, the offices of the City Solicitor, the Receiver of Taxes, the Park Commission, the Captains of Police, the Hahnemann Hospital, the St. Joseph's Hospital,

the residence of Secretary Beitler, the residence of Superintendent of Police Linden, the office of the Register of Wills, the Health officer, the Board of Revision of Taxes, the Bureau of City Property, the office of the City Controller, and the Bureau of Boiler Inspection were connected to the switch board during the year.

The private office of the District Attorney was connected by telephone with his office at the City Hall.

The Police Station at Manayunk, and the Sub-Police Station at Roxborough were connected by telephone with St. Timothy's Hospital, at Roxborough. The Tenth and Eleventh Police Districts and the Patrol stables, Frankford road above Master street, were connected by telephone for convenience in calling the wagon. The telephone located on the Police Tug King, lying on the Schuylkill, was placed in the small office prepared for it on the west bank. The full set of telephones formerly in use at the engine-house at the House of Correction was transferred to the new house at Holmesburg on their removal.

To further benefit the service, and to insure an answer to calls when made, extension bells have been placed in various circuits.

The residence of the Director of Public Works, in the office of the Chief of the Bureau of City Property, in the residence of the Chief of this Bureau, in the office of the House of Correction, and in the van stables at Twelfth and Reed streets.

The residences of the ex-Chief of the Bureau of City Property, and the ex-Superintendent of Police, were disconnected, and the telephones returned to this office.

Electric Lighting.

At the close of the year 1890, there were twelve hundred and ninety-three (1293) electric lights on the highways of the City. At the close of the year 1891, there were seventeen hundred and thirty-one (1731) lamps. Fifty lamps on Delaware avenue and Front street are maintained at the expense

of the Girard Trust, making a grand total of seventeen hundred and eighty-one (1781) lamps.

The method of testing the candle power by means of the volt and ammeter was continued at frequent intervals during the year; lamps or circuits found not meeting the contract requirements of nine and six-tenths ($9\frac{6}{10}$) amperes and forty-seven (47) volts, were at once brought to the attention of the company in whose district they were and promptly remedied. A mean average of all tests made during the year show nine and four-tenths ($9\frac{4}{10}$) amperes for current, and forty-seven and seven-tenths ($47\frac{7}{10}$) volts per lamp.

The Bureau has been called on during the year to make inspections of the theatres having electric light installations. In all cases where fault in wires or apparatus were found, a notification to that effect received prompt attention. At the request of Superintendent Lawrence of Blockley Almshouse, an inspection was made by us of the incandescent plant placed in that institution. The contract for the same was crudely drawn, and was evidently framed by some one little experienced in such matters. The contractor lived up to the terms of the contract in almost every particular and the work was done in accordance with the specifications, but the faulty terms of the contract were shown in the poor class of the work done. Many of the existing conditions were so glaringly at variance with the needs of perfect electrical construction, that the party who performed the contract were notified to place them in different condition, or the work would not be accepted.

While they had fully lived up to the terms of their contract, they should not have been required to make the change demanded, but recognizing that the character of the work done was not of a class that would have existed had the contract and specifications been drawn more specifically, they made the alterations and change suggested, and the work was passed as having been done in accordance with the contract and specifications.

License Returns.

The appeal made by the City Solicitor to the United States Supreme Court against the decision rendered by Judge Butler, of the United States Circuit Court, declaring "The license charges imposed by the City upon the various telegraph, telephone and electric light companies were excessive," to the best of my knowledge still remains in that Court.

The City Solicitor, in pursuance of the decisions rendered by the Supreme Court of Pennsylvania, "That the charges made were not excessive," has entered suit for the license charges due from the various companies chartered and doing business in Pennsylvania. An exhibit showing the amount due from each company will be found among the tables.

Money Paid to the Receiver of Taxes.

The total amount paid to the Receiver of Taxes from all sources, to the credit of this Bureau, was nineteen thousand seven hundred and thirty-four dollars and fifty cents, as follows:—

License charges for 1891,.....	\$18,161 50
Sale of old material during 1891,.....	673 00
Use of Police signal and Telephone system, 1891.....	900 00
<hr/>	
Total receipts.....	\$19,734 50

Appropriations.

Of the one hundred and forty-four thousand three hundred and fifty-eight (144,358) dollars and forty-five (45) cents appropriated to this Bureau for 1891, one hundred and forty-one thousand two hundred and forty-nine (144,249) dollars and fifty-eight (58) cents were expended. Five hundred and forty-five (545) dollars and seventy-six (76) cents merged, and two thousand five hundred and sixty-three (2,563) dollars and eleven (11) cents were carried to the books for 1892.

Number of Poles, Miles of Wire, Etc.

According to the returns made by the telegraph, telephone, and electric light companies there were on the 31st day of December, 1891, on the highways of the City (exclusive of those along railroad tracks) Seven thousand four hundred and fifty-two (7,452) poles, an increase of eight hundred and twenty-nine (829). Five thousand five hundred and thirty (5,530) City poles, an increase of two hundred and twenty-one (221), and a total of City and all other poles of twelve thousand nine hundred and eighty-two (12,982), a total increase of one thousand and fifty (1,050).

Three thousand five hundred and fifty-six and forty-nine one hundredths ($3,556\frac{49}{100}$) miles of telegraph and telephone wire, being a decrease of seven hundred and fifty-seven and seventy-four one hundredths ($757\frac{74}{100}$) miles; six hundred and fifty-two and twenty-four one hundredths ($652\frac{24}{100}$) miles of electric light wire, an increase of seventy-nine and seventy-five one hundredths ($79\frac{75}{100}$) miles, making a total of City and all other wires on poles, fixtures and buildings of five thousand and forty-six and forty-eight one hundredths ($5,046\frac{48}{100}$) miles, a decrease of five hundred and eleven and three one hundredths ($511\frac{3}{100}$) miles. This decrease was caused by the removal of overhead wires, formerly erected by the Bell Telephone Company of Philadelphia.

There are fourteen thousand three hundred and ninety-four (14,394) attachments to City poles, being an increase of four hundred and ninety-eight (498), to support three hundred and ninety-two and forty-seven one hundredths ($392\frac{47}{100}$) miles of wire.

Underground Wires.

At the close of the year there had been placed underground in the City, one thousand four hundred and seventy-four and thirty-nine one hundredths ($1,474\frac{39}{100}$) miles of telegraph and telephone and electric light wires, of which the City owned one hundred and thirty-five and ninety-seven one hundredths ($135\frac{97}{100}$) miles.

Permits, (Overhead.)

The following will show the number of permits issued to each company and the purpose for which they were granted.

Renewal of Poles.

Banker's and Merchant's Telegraph Company.....	1
Bell Telephone Company.....	1
Northern Electric Light Company.....	2
Philadelphia Local Telegraph Company.....	3
Philadelphia, Reading and Pottsville Telegraph Co.....	5
Southern Electric Light Company.....	1
Suburban Electric Co.....	3
United States Electric Light Co.....	2
Western Union Telegraph Co.....	6
Wissahickon Electric Light Co.....	1
Total.....	25

Erection of New Poles and Posts.

Bell Telephone Co.....	1
Brush Electric Light Co.....	9
Cheltenham Electric Light Co.....	3
Diamond Electric Co.....	14
Electric Power Co.....	3
Germantown Electric Light Co.....	5
Manufacturer's Electric Light Co.....	2
Northern Electric Light Company.....	12
Philadelphia Electric Light Co.....	5
Philadelphia Local Telegraph Co.....	2
Philadelphia, Reading and Pottsville Telegraph Co.....	2
Powelton Electric Light Co.....	15
Southern Electric Light Co.....	21
Suburban Electric Light Co.....	9
United States Electric Light Co.....	10
West End Electric Co.....	6
Wissahickon Electric Light Co.....	4
Western Union Telegraph Co.....	1
Total.....	124

Running of New Wire.

American District Telegraph Co.....	4
American Telegraph and Telephone Co.....	3
Bell Telephone Co.....	2

Bankers' and Merchants' Telegraph Co.....	13
Brush Electric Light Co.....	53
Bureau of Water.....	4
Bureau of Gas.....	2
Cheltenham Light, Heat and Power Co.....	2
Diamond Electric Co.....	15
Edison Electric Light Co.....	1
Electric Power Co.....	4
Germantown Electric Light Co.....	2
Manufacturer's Electric Co.....	3
Northern Electric Light Co.....	12
Pennsylvania Railroad Co.....	2
Philadelphia Electric Light Co.....	7
Powelton Electric Light Co.....	45
Philadelphia, Reading and Pottsville Telegraph Co.....	5
Southern Electric Light Co.....	25
Suburban Electric Co.....	6
West End Electric Light Co.....	7
Western Union Telegraph Co.....	10
Wissahickon Electric Light Company.....	2
United States Electric Light Co.....	41
Total.....	<u>270</u>

Repairs to and Renewals of Wire.

American District Telegraph Co.....	7
Atlantic Refining Co.....	2
Bell Telephone Co.....	52
Brush Electric Light Co.....	3
Bankers' and Merchants' Telegraph Co.....	2
Baltimore and Ohio Telegraph Co.....	1
Electric Power Co.....	1
Mutual Union Telegraph Co.....	2
Northern Electric Light and Power Co.....	2
Pennsylvania Railroad Co.....	11
Philadelphia, Reading and Pottsville Telegraph Co.....	2
Philadelphia Electric Light Co.....	2
Powelton Electric Co.....	2
Philadelphia Local Telegraph Co.....	9
United States Electric Light Co.....	2
Total.....	<u>100</u>

Removal of Poles.

Bell Telephone Co.....	2
Brush Electric Light Co.....	1
Electric Power Co.....	1
Northern Electric Light Co.....	2
Western Union Telegraph Co.....	2
Total.....	8

Removal of Wires.

American Telegraph and Telephone Co.....	1
Bell Telephone Co.....	3
Western Union Telegraph Co.....	3
Total.....	7

A total of five hundred and thirty-four (534) permits issued for overhead works, an increase of two hundred and ninety-eight (298) over last year, due to the inauguration of new companies which had been granted privileges by Councils to erect poles and wires along the highways.

Permits, (Underground.)

The following will show the number of permits issued to each company and the purposes for which they were granted.

Repairs.

Columbia Avenue Electric Light Co.....	1
Edison Electric Light Co.....	5
Merchants' Electric Light Co., of North Front Street.....	8
The Penn Electric Light Co.....	149
Total.....	163

New Work (House Connections).

American Telegraph and Telephone Co.....	3
Bell Telephone Co.....	1
Columbia Avenue Electric Light Co.....	18
Edison Electric Light Co.....	8
Frankford Avenue Merchants Electric Light Co.....	9

Manufacturers Electric Light Co.....	24
Merchants Electric Light Co. of North Front street.....	29
Penn Electric Light Co.....	43
West End Electric Co.....	48
Total.....	183

New Work (Main Leads).

Bell Telephone Co.....	2
West End Electric Co.....	1
Total.....	3

Making a total of three hundred and forty-nine (349), a decrease of one hundred and eight (108) from last year and a total of eight hundred and eighty-two (882) of all permits issued.

Number of Telegraph Messages.

Three hundred and twenty-four thousand two hundred and two (324,202) messages were transmitted over the police wires, being an increase of twenty-one thousand five hundred and eighty-two (21,582) over last year.

A synopsis of the work done by districts may be seen in the tabulated statement. Thirty (30) messages were transmitted over the wire connecting this office with the Bureau of Gas.

Operations of the Telephone Switch-Board.

The total of fourteen thousand six hundred and thirteen (14,613) telephone messages show an increase of two thousand three hundred and forty-seven (2,347) over last year. Two hundred thousand eight hundred and twenty-two (200,822) connections were made by the operators working the switch-board, an increase of eighty-five thousand seven hundred and twenty (85,720) over last year.

Number of Alarms of Fire

There were five hundred and ninety-one (591) alarms of fire transmitted over the wires; first alarms, five hundred and sixty (560); second alarms, twenty-four (24); third alarms, six (6); fourth alarms, one (1), an increase of twenty-seven (27) over 1890.

Number of Calls (Police Signal System).

Two million seven hundred and eighty-four thousand eight hundred and sixty (2,784,860) calls, an increase of one million fourteen thousand six hundred and eighty-two (1,014,682) over 1890, were made on the police signal and telephone service during the year; two millions seven hundred and forty-three thousand seven hundred and thirty-six (2,743,736) of which were the telephone service, forty-one thousand one hundred and twenty-four (41,124) wagon calls, twenty thousand and ten (20,010) reports from private institutions using the service.

A summary of the forty-one thousand one hundred and twenty-four (41,124) calls made for the wagons shows: twenty-five thousand five hundred and twenty-five (25,525) for the conveyance of prisoners, four thousand five hundred and sixty-eight (4,568) for the conveyance of injured persons, seven hundred and ninety-two (792) for the conveyance of officers to fires, and ten thousand two hundred and thirty-nine (10,239) miscellaneous.

The following boxes show the greatest number of calls for the wagons during the year 1891 :

Box No.	Location.	Patrol No.	No. calls.
44.	Sixth and St. Mary streets.....	1	1,174
62.	Seventh and Bainbridge streets....	5	662
51.	Charles and Bainbridge streets.....	5	643
45.	Sixth and Spruce streets.....	1	495
42.	Fifth and Lombard streets.....	1	386

The following boxes show the greatest number of telephone calls during the year 1891 :

Box No.	Location.	Patrol No.	No. calls.
12.	Nineteenth and Fairmount avenue.	11	27,148
14.	Twenty-first and Hamilton streets...	11	26,826
16.	Ridge avenue and Ogden street... ..	11	24,265
134.	Tenth and Rodman streets.....	5	23,199
6.	Corinthian and Fairmount avenue.	11	22,940

Number of Instruments, etc., in use by the City.

The City had in use at the end of the year, forty (40) police dial instruments and relays; sixty-four (64) alarm instruments located in engine houses, depots and factories, eleven (11) of which are private.

Six hundred and twenty-six (626) five signal boxes, thirty-five (35) of which are private; sixty-three (63) sets of bells, relays and keys, devoted to the fire signal and telephone service; twenty-two (22) police signal and telephone system central office sets complete; two hundred and ninety-nine (299) police patrol sentry booths, three hundred and eleven (311) police patrol signal boxes, five thousand five hundred and thirty (5,530) poles, eight hundred and thirty-seven and seventy-five one hundredths ($837\frac{75}{100}$) miles of overhead wire, one hundred and thirty-five and ninety-eight one hundredths ($135\frac{98}{100}$) miles of underground wire, fifty-nine thousand and thirty (59,030) feet of underground conduit, five hundred and twenty-four (524) telephones.

Miscellaneous.

The messenger call service of the American District and Western Union Telegraph Companies have been placed on conductors, furnished by this bureau, to the underground cable terminal in all of the offices in the City Hall. Buzzers, bells and push buttons have been placed in many of the offices in the City Hall, and in a number of the police station houses.

A mile of double conductor wire, known as the patent metallic shield and anti-induction wire, was presented to the bureau by the National Electric Company, No. 19 Congress street, Boston, Mass., and placed in circuit between the Second and Nineteenth District Police Stations, and the stable of No. 5 patrol, No. 820 Lombard street. A test of the wire for insulation resistance showed it to largely exceed seven hundred and fifty thousand (750,000) ohms, the greatest resistance that could be obtained by the means of instruments used,

a Bunnel galvanometer, Rheostat and bridge. A test for conductivity resistance gave seventy-two and six tenths ($72\frac{6}{10}$) ohms, of which the core wire contained eight and seventy-one one hundredths ($8\frac{71}{100}$) ohms, and the sheath sixty-three and eighty-nine one hundredths ($63\frac{89}{100}$) ohms. The wire has been giving the best of service, and having supplanted one that was almost useless from the induction from electric light circuits, the results are most gratifying, as there is no interference whatever from induction effects. From the good results obtained it is probable we shall use it still further.

On July 1st a system was introduced by the officers of the bureau by means of which faults occurring on the wires connected with the various services entering the operating room in the City Hall are accurately located by a series of tests made with instruments of electrical precision.

Before the introduction of this system a fault occurring on a wire, particularly the longer circuits, necessitated the services of a lineman, in many cases the greater part of a day, as there was no alternative but to walk over the circuit, and for tests calling in from the different boxes on the way until the trouble was found and remedied. Under the present method the linemen are frequently sent directly to the point of contact; in no instance are the measurements more than two or three blocks out of the way. The results are particularly gratifying, a fault occurring is quickly removed, and the very important services embraced in the City's electrical system are brought nearer absolute perfection than ever before.

A guy wire wrapped around a signal box pipe, and crossed with an electric light wire, and a broken telephone wire falling across one of our signal circuits, was the cause of a number of magnets in fire-signal boxes being burned. It is our purpose to obviate this trouble by the introduction of a device to shunt the boxes out when currents of high intensity introduced into our circuits by crossed wires are passing through them.

In conclusion, allow me to express myself duly grateful for the unlimited confidence expressed, and for the valued counsel

and assistance rendered by the Mayor, the Director of Public Works and yourself, in the administration of the affairs of this Bureau, and to thank the Chiefs of the various Bureaus for their co-operation and concurrence in the matters coming under their care in which this Bureau had an interest. And to express my appreciation of the very able and efficient manner in which Manager John C. Sager has assisted me in the management of this branch of the city's service, and to the other employees of the Bureau for the faithful performance of their duties.

Very respectfully,

D. R. WALKER,

Chief of Bureau.

Summary of the operations of the Police Telegraph during the year 1891.

Districts.	Whole No. of messages.	Messages received.	Messages sent.	Coroner notified.	Officers summoned to Grand Jury.	Relating to fires.	Description of				Restored to friends & owners				SUB-DIVISIONS.													
							Stolen property.	Criminals.	Missing persons.	Lost children.	Missing persons.	Lost children.	Extrays.	Vehicles.	Classified.	Miscellaneous.	Missing persons.		Lost children.	Extrays.				Vehicles.				
																	Men.	Women.		Boys.	Girls.	Horses.	Mules.	Cattle.	Carriages.	Wagons.	Carts.	Drays.	Push carts.
First.....	7,758	4,402	8,356	36	121	512	4,4	788	673	139	82	71	54	35	2,995	4,763	56	26	43	28	32	9	13	5	20	8	2	7
Second.....	17,810	9,185	8,622	67	897	675	756	1,378	1,120	706	26	423	49	46	6,143	11,667	12	14	237	186	42	6	2	6	29	4	12	7
Third.....	20,684	10,969	9,695	34	264	571	1,207	782	1,494	439	8	265	44	49	6,167	15,497	5	5	160	105	40	3	1	8	27	2	12	7
Fourth.....	10,885	6,018	4,867	24	76	576	382	821	634	142	6	141	21	22	2,949	8,036	1	3	102	39	23	2	2	1	14	3	2	7
Fifth.....	15,035	7,952	4,584	25	96	584	446	759	620	98	11	98	24	19	2,780	12,255	16	5	68	30	22	2	2	2	1	3	2	7
Sixth.....	7,187	4,149	3,038	13	87	629	531	1,545	907	168	21	67	17	11	3,996	3,191	12	9	44	23	11	5	1	1	2	2	12	2
Seventh.....	7,683	3,799	3,884	38	84	578	505	608	681	127	3	127	16	27	2,794	4,889	1	2	68	64	31	1	1	4	7	2	6	4
Eighth.....	7,460	4,192	3,268	25	55	602	500	1,197	656	259	5	14	14	19	3,478	3,862	3	2	82	69	13	1	1	4	1	1	11	2
Ninth.....	16,406	8,571	7,835	23	82	612	593	901	1,620	202	57	76	45	21	4,235	5,213	30	7	46	30	21	5	1	2	1	1	1	1
Tenth.....	7,281	3,925	3,356	31	29	558	532	604	906	258	5	92	14	9	6,391	11,015	35	7	129	109	23	7	1	1	1	1	1	2
Eleventh.....	8,154	4,345	3,809	29	47	617	542	563	997	351	19	146	13	11	3,335	4,213	3	2	64	28	6	8	3	1	1	1	1	2
Twelfth.....	6,430	3,618	2,812	25	40	891	505	482	1,244	2	24	27	6	3	2,949	3,481	18	6	14	13	6	4	1	1	1	1	1	1
Thirteenth.....	14,479	7,612	6,867	30	68	611	562	1,698	672	48	8	28	46	2	3,768	10,711	6	3	18	10	15	4	7	1	1	1	1	1
Fourteenth.....	7,484	4,735	3,489	44	84	573	585	1,127	97	12	16	14	14	3	2,601	4,853	14	6	35	29	45	3	4	2	17	2	1	1
Fifteenth.....	7,188	3,699	3,489	44	84	573	585	1,127	97	12	16	14	14	3	2,601	4,853	14	6	35	29	45	3	4	2	17	2	1	1
Sixteenth.....	8,644	4,981	4,163	46	33	577	489	926	1,360	223	224	173	28	11	4,150	4,934	150	74	108	53	24	6	5	4	11	2	1	3
Seventeenth.....	8,957	5,084	3,873	40	54	573	564	532	1,365	162	7	217	12	12	3,587	4,101	3	4	129	88	11	1	1	1	1	1	1	1
Eighteenth.....	16,163	8,474	7,789	19	54	585	543	786	1,666	116	7	79	14	9	2,678	13,453	3	4	53	26	11	1	1	1	1	1	1	1
Nineteenth.....	7,789	4,136	3,652	23	100	573	564	532	1,365	162	7	217	12	12	3,587	4,101	3	4	53	26	11	1	1	1	1	1	1	1
Twentieth.....	8,472	7,789	7,889	35	92	602	663	815	993	138	17	35	63	15	3,468	5,004	10	8	31	40	4	4	1	1	1	1	1	1
Twenty-first.....	15,370	7,991	7,879	63	102	612	612	843	899	739	132	167	91	50	3,384	11,986	8	8	17	50	67	2	22	9	4	7	1	1
Twenty-second.....	8,513	4,424	4,099	31	54	593	507	864	955	242	7	132	25	10	3,386	3,527	1	6	78	20	11	1	1	1	1	1	1	1
Twenty-third.....	8,563	4,909	3,654	53	60	603	502	863	743	132	61	132	15	9	3,138	5,425	2	4	83	49	11	1	1	1	1	1	1	1
Twenty-fourth.....	17,998	9,585	8,413	32	134	583	489	530	1,047	116	7	201	30	9	2,852	4,580	1	6	130	71	19	2	9	1	1	1	1	1
Twenty-fifth.....	7,412	4,011	3,401	26	33	587	441	769	506	299	3	99	14	8	2,852	4,580	1	3	49	50	18	1	1	1	1	1	1	1
Twenty-sixth.....	8,492	5,365	3,127	15	4	517	455	895	654	3	1	77	22	11	2,606	3,986	1	2	3	30	20	1	1	1	1	1	1	1
Twenty-seventh.....	6,385	4,425	1,960	22	4	604	598	1,072	755	143	11	77	22	11	3,319	3,986	9	2	47	30	20	1	1	1	1	1	1	1
29th Dist. Sub-station.....	5,084	3,565	1,469	12	1	574	384	559	972	.....	.....	.....	.....	.....	2,907	2,927	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Roxborough.....	1,328	652	676	1	4	10	16	69	385	.....	.....	.....	.....	.....	597	1,915	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Olney.....	2,202	1,353	849	1	4	280	146	235	317	7	1	3	15	5	397	1,915	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Holmesburg.....	7,803	4,197	3,606	10	1	591	512	1,146	701	1	1	5	1	1	2,370	4,833	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Falls of Schuykill.....	4,046	3,277	4,659	5	62	565	494	639	897	.....	.....	.....	.....	.....	2,586	7,197	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Bridgetown.....	9,783	5,174	4,609	8	62	576	564	593	697	30	4	23	37	2	2,586	7,197	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Niecostown.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total.....	324,202	178,596	145,606	955	2,984	19,189	17,694	27,956	80,462	5,874	669	3,536	904	500	110,703	213,499	428	241	2,214	1,322	637	70	197	86	281	55	276	76

Police Signal and Telephone Service for the year 1891.

TELEPHONE CALLS.

MONTHS.	No. 1 Patrol, 3d District.	No. 2 Patrol, 21st District.	No. 3 Patrol, 16th District.	No. 4 Patrol, 6th & 20th Districts.	No. 5 Patrol, 5th District.	No. 5 Patrol, 2d District.	No. 5 Patrol, 19th District.	No. 6 Patrol, 1st District.	No. 6 Patrol, 17th District.	No. 7 Patrol, 26th District.	No. 8 Patrol, 22d District.	No. 9 Patrol, 23d District.	No. 10 Patrol, 24th District.	No. 11 Patrol, 9th District.	No. 12 Patrol, 15th District.	No. 13 Patrol, 14th District.	No. 13 Patrol, 26th District.	No. 14 Patrol, 14th District.	No. 15 Patrol, 11th District.	No. 15 Patrol, 10th District.	27th District.	TOTAL.
January	12,109	17,659	18,934	10,543	13,259	5,761	10,998	8,077	6,440	3,373	13,712	14,379	9,975	20,112	7,812	13,868	10,290	9,540	7,087	.....	459	214,317
February	10,662	17,532	16,411	9,438	11,773	8,388	9,837	7,311	5,106	5,275	12,988	13,197	9,015	18,219	7,097	12,882	9,317	9,149	6,586	.....	424	200,002
March	13,236	18,258	18,190	10,373	12,940	13,553	11,083	8,593	10,124	9,154	13,734	14,763	10,247	20,026	7,807	13,865	10,325	10,643	7,485	.....	404	235,306
April	12,641	17,982	17,045	10,134	12,564	13,144	10,570	8,335	9,932	8,837	13,270	14,685	9,972	19,614	7,590	13,227	9,930	10,693	6,941	.....	418	227,524
May	12,839	18,607	18,104	10,408	12,455	13,782	11,086	8,590	10,806	9,076	13,716	14,912	10,257	20,040	7,792	13,925	10,313	10,694	7,240	.....	366	235,058
June	13,300	16,481	16,736	9,872	11,633	12,912	10,445	8,334	10,442	8,775	13,290	14,211	9,560	19,751	7,590	13,413	9,995	9,581	6,325	.....	397	223,046
July	13,375	15,744	15,653	9,909	11,819	13,388	10,843	8,578	10,837	10,421	13,732	13,189	8,855	19,920	7,822	13,773	10,374	9,879	6,478	.....	462	224,551
August	13,174	15,381	15,047	9,757	11,841	13,314	10,274	8,582	11,255	10,711	13,731	12,892	8,803	19,301	7,832	13,880	10,357	9,845	6,297	.....	437	222,711
September	13,540	17,504	15,512	10,229	11,869	12,938	10,533	8,421	11,786	10,445	13,276	13,685	8,297	19,524	7,575	13,365	10,062	10,546	6,875	.....	420	225,402
October	13,652	17,911	16,615	10,609	12,469	13,391	10,899	9,340	11,854	11,040	13,753	14,737	8,443	19,871	7,807	13,748	9,939	10,589	9,194	.....	450	226,301
November	12,759	17,080	17,328	10,147	11,530	13,043	10,770	10,837	11,201	10,498	13,333	13,760	8,390	19,881	7,560	13,375	9,272	10,118	10,759	12,108	502	224,251
December	12,782	17,665	18,162	10,607	12,638	13,450	10,832	10,972	11,594	11,048	13,329	14,514	8,470	20,004	8,618	13,813	9,537	10,885	10,953	13,824	370	254,267
Total	154,169	207,804	203,737	122,526	148,790	147,059	128,060	105,970	120,877	108,653	161,464	163,924	110,284	236,263	92,902	163,127	119,711	122,165	92,220	25,932	5,109	2,743,736

Summary of the Police Signal and Telephone Service for the year 1891.

MONTHS.	WAGON CALLS.										BANK CALLS.							Total of all Calls.							
	No. 1 Patrol.	No. 2 Patrol.	No. 3 Patrol.	No. 4 Patrol.	No. 5 Patrol.	No. 6 Patrol.	No. 7 Patrol.	No. 8 Patrol.	No. 9 Patrol.	No. 10 Patrol.	No. 11 Patrol.	No. 12 Patrol.	No. 13 Patrol.	No. 14 Patrol.	Total.	Republic. Patrol No. 1.	Guarantee Trust. Patrol No. 1.		Centennial. Patrol No. 2.	Market Street. Patrol No. 4.	Third National. Patrol No. 4.	South Western. Patrol No. 5.	North Western. Patrol No. 9.	German Town Trust. Patrol No. 14.	Total Bank Calls.
January.....	815	127	122	345	309	146	90	79	61	86	137	56	265	44	2,678	124	160	186	62	155	476	176	309	1,648	216,995
February....	916	88	174	311	351	134	97	72	58	76	125	44	264	44	2,727	112	143	168	56	139	436	165	383	1,552	202,729
March.....	934	97	131	382	347	168	129	58	71	102	143	58	284	64	2,961	124	161	186	62	153	488	177	369	1,715	238,267
April.....	976	150	173	433	364	191	168	100	115	117	143	68	319	64	3,381	120	160	180	60	148	460	179	360	1,667	230,935
May.....	840	153	208	439	497	246	178	96	121	133	189	68	308	90	3,571	124	160	186	61	152	498	183	370	1,734	238,629
June.....	1,096	150	247	358	380	217	158	119	77	107	201	50	329	85	3,574	120	154	180	60	147	460	178	328	1,627	226,620
July.....	1,082	145	226	360	421	173	125	128	130	139	186	63	314	124	3,616	124	156	186	61	145	484	185	349	1,690	228,167
August.....	1,628	143	205	415	442	197	127	114	108	140	176	89	343	75	4,202	124	162	186	61	153	484	182	368	1,720	226,913
September...	1,624	140	192	449	388	194	182	123	101	140	222	68	349	108	4,239	120	153	180	57	143	472	180	360	1,665	230,682
October.....	990	158	170	431	377	198	153	130	58	118	188	67	284	86	3,408	124	156	186	61	148	447	183	359	1,664	239,709
November...	972	107	188	318	332	190	125	62	61	95	131	67	298	60	2,986	124	151	180	56	149	460	176	344	1,640	247,237
December....	1,224	142	139	454	419	269	161	101	78	124	171	72	296	90	3,740	124	157	186	60	151	458	180	372	1,688	253,007
Total.....	13,997	1,605	2,098	4,725	4,620	2,323	1,693	1,182	1,039	1,377	2,012	770	3,653	930	41,124	1,464	1,873	2,190	717	1,783	5,618	2,144	4,221	20,010	2,784,860

Synopsis of Wagon Calls, 1891.

MONTHS.	Conveyance of Prisoners.	Conveyance of Injured Persons.	Conveyance of officers to and from fires.	Miscellaneous.	Total Wagon Calls.
January.....	1,614	353	47	664	2,678
February.....	1,697	294	48	688	2,727
March.....	1,810	322	56	773	2,961
April.....	2,127	361	69	824	3,381
May.....	2,179	430	84	878	3,571
June.....	2,129	471	80	894	3,574
July.....	2,242	421	76	877	3,616
August.....	2,576	457	76	1,093	4,202
September.....	2,696	404	49	1,131	4,280
October.....	2,194	342	47	825	3,408
November.....	1,893	316	70	707	2,986
December.....	2,368	397	90	885	3,740
Total.....	25,525	4,568	792	10,239	41,124

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
[Patrol No. 1. Third and Fourth Police Districts.]

LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Septem-ber.		October.		Novem-ber.		Decem-ber.		TOTAL.
	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
Third District.																									
42 5th and Lombard.....	29	895	39	834	42	899	31	889	36	909	32	890	28	893	27	891	38	886	24	885	36	882	24	880	10,869
44 6th and St. Mary.....	82	1,001	78	912	86	991	77	982	91	1,019	96	1,060	119	1,080	131	1,069	121	1,032	106	1,049	89	988	98	933	18,340
45 6th and Spruce.....	31	992	31	902	41	1,016	43	971	46	992	43	1,005	41	1,012	58	1,046	59	1,018	42	1,012	26	952	34	991	12,308
52 5th and Walnut.....	4	566	11	526	6	576	9	552	9	576	10	582	14	586	18	584	24	588	13	584	9	538	10	578	7,003
61 2d and South.....	12	676	13	614	18	962	21	936	16	932	23	983	32	994	38	1,006	29	958	31	992	20	940	23	933	11,102
123 Del. ave. and South.....	19	665	11	610	17	913	16	844	13	913	29	899	37	911	31	889	24	869	19	876	11	832	17	854	10,300
123 Del. ave. and Dock.....	19	968	21	882	18	1,008	29	938	29	1,008	31	1,116	42	1,014	32	994	42	982	38	1,006	25	956	35	919	12,152
133 3d and Dock.....	11	581	11	526	18	673	12	668	11	673	10	682	16	683	8	715	13	656	12	676	19	668	19	671	8,028
24 Guarantee Trust.....	11	160	.....	143	.....	161	.....	160	.....	160	.....	154	.....	153	.....	162	.....	153	.....	156	.....	151	.....	157	1,878
72 Bank of Republic.....	.....	124	.....	112	.....	124	.....	120	.....	124	.....	120	.....	124	.....	124	.....	124	.....	124	.....	124	.....	124	1,464
Lo 3d District Station.....	26	648	29	590	31	747	36	812	29	684	37	987	21	865	32	970	33	869	27	798	37	689	61	915	9,576
Total of 3rd District.....	221	7,276	244	6,651	277	8,038	274	7,868	280	8,020	311	8,479	353	8,318	375	8,500	383	8,141	312	8,158	272	7,466	321	7,878	98,415
Fourth District.																									
14 4th and Arch.....	3	418	.....	376	2	363	3	510	6	709	1	516	2	649	.....	447	.....	667	6	648	.....	628	4	620	6,608
15 Del. ave. and Race.....	5	622	5	633	3	707	6	688	7	584	19	590	23	692	24	640	17	687	6	672	8	626	8	506	7,768
16 Water and Vine.....	5	243	.....	216	7	274	8	290	6	281	10	201	5	304	9	285	8	287	6	276	4	293	3	259	3,259
22 3d and Church.....	8	439	8	382	11	533	10	521	12	468	6	648	9	608	11	399	7	574	8	561	6	555	9	554	6,359
33 6th and Arch.....	4	984	.....	791	6	988	11	797	11	804	6	820	2	617	7	727	7	846	2	829	6	809	5	801	9,926
126 Del. ave. and Chestnut.....	2	333	5	301	9	397	6	374	9	387	8	392	5	389	21	389	10	398	11	378	4	368	10	460	4,686
225 5th and Commerce.....	2	513	.....	455	.....	561	.....	518	2	539	4	518	6	485	6	439	6	599	8	589	4	536	.....	529	6,480
331 2d and Arch.....	11	724	18	598	10	826	15	799	18	627	14	837	16	807	9	854	12	867	17	941	13	835	21	794	9,663
333 Del. ave. and Market.....	12	722	8	594	16	721	4	677	9	681	4	652	17	695	14	694	18	682	17	684	15	838	16	742	8,804
142 4th District Station.....	18	362	10	290	16	305	16	222	12	370	15	314	7	388	16	376	21	389	7	408	14	389	17	414	4,386
Total of 4th District.....	70	5,360	57	4,626	80	5,675	79	5,396	102	5,377	85	5,321	92	5,694	117	5,410	98	6,187	75	6,097	74	5,860	94	5,713	67,939
Total.....	291	12,638	301	11,277	357	13,713	353	13,264	382	13,397	396	14,000	445	14,012	492	13,910	481	14,328	387	14,255	346	13,325	415	13,591	
Grand total.....	12,927	11,578	14,070	13,617	13,719	14,396	14,457	14,402	14,809	14,642	13,671	14,006	166,354												

GEO. W. CROMWELL,
GEO. W. JONES,
WM. B. HARING, } Operators.

*Showing the number of Calls from each box in the Police Signal and Telephone System during the Year 1891.
Patrol No. 2. Twenty-first Police District.*

Number of Box.	LOCATION.										January.		February.		March.		April.		May.		June.		July.		August.		Septemb'r.		October.		November.		December.		Total.
	Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.		Wagon.		Telephone.				
12	33d st and Woodland ave.....	7	1,000	9	914	6	985	10	960	8	1,015	11	986	8	1,008	5	1,009	11	995	13	1,018	7	977	9	1,030								12,001		
13	52d and Walnut street.....	1	554	1	587	1	587	1	578	8	576	3	402	2	428	1	409	2	557	8	564	1	564	1	584								6,335		
15	South Street Bridge.....	14	874	6	829	12	995	9	968	8	924	11	706	8	638	9	662	6	844	4	871	5	875	13	965								10,146		
16	60th and Market street.....	1	122	2	92	1	129	1	118	2	124	1	122	1	126	1	125	1	121	1	124	1	121	1	121								1,454		
21	42d st. and Baltimore ave.....	2	1,000	2	962	2	1,055	3	1,024	2	1,061	8	949	3	1,017	3	1,063	1	996	1	1,013	4	949	1	945								12,066		
22	40th and Locust street.....	2	1,549	2	1,532	2	1,733	3	1,799	8	1,858	1	1,790	2	1,862	2	1,774	5	1,779	1	1,837	5	1,748	2	1,813								21,106		
26	38th and Sansom street.....	6	2,025	2	1,879	2	2,073	2	1,974	4	2,035	2	1,696	2	1,747	3	1,975	3	1,910	1	1,940	1	1,642	4	1,763								22,289		
27	43th and Spruce street.....	1	1,031	1	942	1	1,056	1	1,001	2	1,038	841	841	4	483	1	637	3	1,024	1	1,042	1	1,023	1	1,051								11,231		
31	46th st. and Kingessing ave.....	1	455	1	423	1	435	3	492	2	522	2	438	2	424	3	369	2	449	3	488	472	472	1	476								5,423		
32	58th st. and Elmwood ave.....	1	466	1	368	1	339	1	404	4	478	454	454	7	454	5	388	2	432	2	437	471	471	1	485								5,222		
36	30th and Chestnut street.....	11	1,530	5	1,420	7	1,553	9	1,554	8	1,643	8	1,450	7	1,432	5	1,217	7	1,378	16	1,500	9	1,391	13	1,427								17,600		
51	32d and Market street.....	6	186	7	168	5	186	5	180	7	186	15	180	8	186	13	185	11	180	18	186	9	180	13	186								2,307		
61	36th and Market street.....	3	965	3	897	7	1,000	1	930	4	1,000	2	963	4	1,001	6	995	10	967	9	998	6	965	6	1,001								11,773		
142	44th and Sansom street.....	1	393	1	389	1	374	1	451	1	362	1	113	1	264	1	294	2	349	1	392	1	422	1	422								4,122		
216	43d st. and Woodland ave.....	5	514	2	489	3	521	2	519	7	531	6	397	3	390	4	286	4	511	2	522	1	474	2	516								5,711		
242	42d and Market street.....	6	1,189	4	1,093	3	1,147	8	1,189	3	1,125	5	1,081	5	1,046	4	1,019	5	1,063	5	1,125	2	1,020	5	994								13,137		
243	40th st. and Woodland ave.....	5	989	3	929	6	1,039	7	983	8	1,038	11	1,005	9	978	14	965	10	1,025	10	983	7	965	4	1,004								11,497		
312	60th st. and Hazell ave.....	5	285	1	314	3	331	3	322	2	297	1	290	1	307	1	304	2	297	1	301	1	297	1	301								3,572		
321	58th st. and Woodland ave.....	5	475	3	383	4	408	5	432	8	524	8	496	9	472	2	449	8	480	7	459	4	484	5	505								5,615		
323	62d and Woodland ave.....	2	123	3	120	4	130	5	122	4	132	4	131	4	136	4	138	3	136	4	127	2	123	4	135								1,593		
413	48th and Market street.....	1	490	1	469	1	535	1	510	4	543	1	417	3	414	1	402	3	513	1	531	2	511	1	525								5,910		
512	72d and Woodland ave.....	3	1,237	4	1,229	8	1,309	12	1,251	6	1,390	5	1,379	5	1,241	11	1,106	6	1,260	5	1,236	5	1,233	11	1,324								15,296		
522	60th and Baltimore ave.....	2	164	1	215	1	218	2	191	1	181	215	215	1	218	3	189	1	200	.....	184	2	173	.....	214								2,375
Total.....		82	17,659	59	16,532	74	18,258	92	17,982	98	18,607	98	16,481	91	15,741	94	15,381	103	17,501	104	17,911	75	17,080	97	17,665								207,871		

AUGUSTUS SIMPSON, }
 EDWARD J. DONNACHA, } Operators.
 EDW. N. GIBSON, }

*Showing the number of Calls from each Box in the Police Signal and Telephone System, during the Year 1891.
Twentieth Police District.*

No. of Box.	LOCATION.	Jan.		Feb.		March.		April.		May.		June.		July.		Aug.		Sept.		Oct.		Nov.		Dec.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
23	Third National Bank	83	155	139	153	101	153	148	148	152	161	147	145	145	143	153	153	143	143	145	145	149	149	149	149	1,783
36	Market Street National Bank	11	62	56	62	101	62	60	60	61	61	60	61	61	61	123	61	153	61	117	61	56	56	56	56	1,717
37	5th District Station House	59	220	199	236	48	236	227	227	230	230	198	384	384	384	451	381	447	447	477	477	477	477	477	477	2,527
26	20th District Station House	2	415	375	446	60	446	417	417	414	414	56	337	337	337	451	361	407	407	477	477	477	477	477	477	6,447
31	29th and Vine streets	2	502	451	522	8	522	486	486	508	508	496	458	458	458	573	437	508	508	573	573	573	573	573	573	9,906
31	23rd and Arch streets	6	669	702	820	8	820	744	744	768	768	674	739	739	739	845	727	845	845	910	910	910	910	910	910	9,906
37	10th and Arch streets	13	522	513	516	6	516	505	505	508	508	511	511	511	511	511	511	511	511	511	511	511	511	511	511	10,119
43	27th and Race streets	12	594	543	532	15	532	505	505	519	519	511	511	511	511	511	511	511	511	511	511	511	511	511	511	7,128
46	21st and Race streets	9	519	516	531	8	531	505	505	519	519	511	511	511	511	511	511	511	511	511	511	511	511	511	511	6,149
47	19th and Race streets	1	519	516	531	8	531	505	505	519	519	511	511	511	511	511	511	511	511	511	511	511	511	511	511	5,149
51	19th and Vine streets	2	519	516	531	8	531	505	505	519	519	511	511	511	511	511	511	511	511	511	511	511	511	511	511	5,149
55	Broad and Vine streets	2	519	516	531	8	531	505	505	519	519	511	511	511	511	511	511	511	511	511	511	511	511	511	511	5,149
144	13th and Cherry streets	9	427	492	492	3	492	408	408	418	418	411	411	411	411	411	411	411	411	411	411	411	411	411	411	5,914
151	23d and Cherry streets	5	620	553	553	9	553	508	508	518	518	511	511	511	511	511	511	511	511	511	511	511	511	511	511	7,314
313	17th and Market streets	5	730	660	660	13	660	593	593	618	618	611	611	611	611	611	611	611	611	611	611	611	611	611	611	9,304
341	Chesnut and Market streets	2	806	716	716	2	716	645	645	665	665	658	658	658	658	658	658	658	658	658	658	658	658	658	658	9,304
412	16th and Race streets	19	769	678	678	17	678	615	615	635	635	628	628	628	628	628	628	628	628	628	628	628	628	628	628	9,302
421	12th and Market streets	15	866	769	769	23	769	705	705	725	725	718	718	718	718	718	718	718	718	718	718	718	718	718	718	10,196
432	9th and Market streets	15	866	769	769	23	769	705	705	725	725	718	718	718	718	718	718	718	718	718	718	718	718	718	718	10,196
	Total	261	10,543	9,438	9,438	280	10,873	9,920	10,134	10,408	10,408	9,872	9,909	9,909	9,909	9,757	9,757	10,229	10,229	10,609	10,609	10,147	10,147	10,147	10,147	125,933

WILLIAM NEWMAN,
JOHN PEARSON,
B. BERENS,

} Operators.

*Showing the number of Calls from each box in the Police Signal and Telephone System during the Year 1891.
Fifth Police District.
Patrol No. 4.*

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		TOTAL.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
23	18th and Lombard.....	25	1,425	19	1,188	24	1,266	22	1,255	18	1,265	14	982	23	854	26	767	26	1,138	19	1,177	12	1,168	22	1,238	13,973
25	17th and Pine.....	7	871	15	796	15	865	16	1,098	12	1,083	9	960	6	930	16	753	10	727	13	798	11	794	17	894	10,620
63	19th and Sanson.....	5	847	1	745	2	825	5	714	3	445	4	467	5	483	5	466	8	440	3	439	5	424	5	455	6,804
124	Broad and South.....	3	1,208	6	1,138	9	1,196	10	1,296	10	1,116	4	931	17	955	6	967	8	939	9	1,198	6	1,090	8	1,208	13,236
141	22d and Naudain.....	14	1,319	13	1,107	14	1,278	17	1,265	21	1,271	7	1,128	17	1,03	16	1,243	18	1,215	12	1,225	9	1,158	18	1,270	14,858
143	15th and Brighton.....	4	1,635	4	1,135	4	1,295	10	1,334	7	1,418	5	1,340	2	1,447	4	1,469	5	1,430	6	1,420	6	1,308	5	1,436	16,728
241	22d and Pine.....	1	826	4	785	4	874	4	801	6	889	7	815	7	824	14	873	12	837	11	860	4	778	6	842	10,034
314	Barnwell and South.....	4	783	2	727	12	830	9	776	4	777	4	720	3	784	9	818	10	792	6	803	12	771	8	807	9,471
324	Cope and Sansom.....	9	1,170	8	1,142	8	1,270	8	1,058	16	1,032	16	1,166	11	1,092	8	1,202	19	1,136	20	1,282	13	1,064	14	1,242	14,006
332	21st and Delancey.....	4	798	2	732	2	791	6	787	3	792	7	774	12	821	5	809	9	783	3	797	4	733	8	823	9,505
342	25th and Spruce.....	1	773	2	757	3	790	8	796	5	804	5	775	4	800	9	824	8	799	3	799	1	736	4	791	9,497
414	20th and Locust.....	4	1,191	4	1,108	2	1,213	2	1,157	8	1,192	4	1,155	7	1,196	6	1,187	9	1,189	9	1,220	5	1,117	5	1,209	14,199
423	28th and Lombard.....	3	413	1	409	3	447	2	407	3	421	3	416	5	430	13	463	11	444	9	449	1	383	2	421	5,159
233	Union League.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
71	Academy of Music.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
	TOTAL.....	84	13,259	81	11,773	102	12,940	113	12,564	116	12,455	92	11,633	107	11,819	137	11,841	153	11,869	123	12,469	88	11,530	122	12,638	143,108

WILLIAM H. IRWIN, } Operators.
 FRANK M. EVANS, }
 WM. W. CRAIG, }

Showing the number of calls from each box in the Police Signal and Telephone System during the year 1891.
Patrol No. 5. Second Police District.

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'e'b'r.		October.		Nov'e'ber.		Dec'e'ber.		TOTAL.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.			
14	13th and Bainbridge streets....	366	18	472	18	777	23	752	27	781	22	759	30	787	33	798	23	768	18	785	16	757	24	788	8,313	
16	Broad and Washington ave....	335	9	476	12	777	12	751	17	777	12	759	9	783	14	782	16	755	10	780	9	752	9	777	8,643	
10	45 11th and Washington ave....	335	7	473	7	777	11	760	14	783	23	769	16	788	14	785	6	761	3	800	5	766	9	786	8,688	
46	11th and Catherine streets....	336	19	472	17	777	13	760	23	782	16	763	23	783	15	783	17	763	24	789	13	758	17	780	8,757	
51	Charles and Bainbridge streets	338	60	516	34	777	52	760	55	784	51	773	65	781	67	798	57	779	60	794	46	770	61	793	9,316	
22	Passyunk ave. & Catherine st.	593	26	947	7	1,554	13	1,503	23	1,555	17	1,512	27	1,537	30	1,557	23	1,506	11	1,556	24	1,507	26	1,559	17,150	
17	53 Passyunk & Washington aves.	333	11	664	11	1,208	12	1,140	23	1,186	18	1,152	20	1,202	27	1,178	23	1,147	11	1,190	10	1,148	12	1,206	12,987	
1	54 4th and Washington ave....	336	1	465	1	725	1	752	1	782	.....	368	.....	383	7	388	6	376	4	396	4	391	1	382	5,771
1	55 4th and Christian streets....	512	3	662	4	829	3	752	3	781	.....	1,163	1	1,208	5	1,198	3	1,157	2	1,199	5	1,157	3	1,206	11,567
12	61 9th and Christian streets....	356	9	666	15	1,206	14	1,141	31	1,184	21	1,152	18	1,216	24	1,187	16	1,152	27	1,179	19	1,150	23	1,202	13,020	
55	62 7th and Bainbridge streets....	347	47	614	46	1,206	61	1,141	76	1,191	48	1,159	52	1,226	69	1,192	66	1,162	48	1,192	62	1,159	43	1,213	18,464	
63	Front and Bainbridge streets...	668	7	782	10	1,125	7	1,114	3	1,160	10	768	10	803	14	811	9	788	8	791	3	766	9	797	10,444	
54	Delaware ave. & Christian st....	447	1	698	4	1,206	1	1,140	6	1,187	3	1,159	5	1,119	3	1,201	1	1,161	4	1,198	1	1,161	6	1,208	12,993	
Total.....		181	5,340	218	7,837	185	12,942	223	12,436	302	12,933	241	12,238	276	12,715	322	12,668	256	12,245	230	12,647	216	12,242	243	12,707	141,903

GEORGE B. ZANE,
CHARLES S. POPE,
JOHN H. STULL,

Operators.

Showing the number of calls from each box in the Police Signal and Telephone System during the year 1891.
Patrol No. 5. Nineteenth Police District.

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		TOTAL.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
24 9th and Locust streets	6	1,205	1,110	10	1,183	17	1,167	11	1,198	13	1,109	9	982	12	910	15	1,094	21	1,172	13	1,078	21	1,148	21	1,148	13,464
53 8th and Sansom streets	25	1,725	1,404	11	1,827	19	1,645	17	1,601	17	1,552	13	1,663	17	1,624	12	1,566	23	1,616	16	1,512	18	1,598	18	1,598	19,031
121 Broad and Pine streets	3	791	686	3	772	18	754	13	778	4	777	9	813	4	811	11	763	15	780	9	886	14	783	14	783	9,499
134 10th and Rodman streets	9	1,991	1,774	...	1,989	5	1,952	4	1,998	3	1,951	4	2,013	3	1,989	3	1,969	6	1,980	8	1,900	4	1,893	4	1,893	23,248
143 10th and Pine streets	10	770	750	17	767	5	751	11	801	8	785	11	827	13	834	14	778	19	804	10	766	17	925	17	925	9,701
251 11th and Locust streets	13	1,948	1,720	13	1,968	14	1,847	19	1,951	8	1,784	21	1,753	14	1,665	18	1,892	17	1,884	15	1,899	29	2,037	29	2,037	22,399
252 11th and Sansom streets	13	1,263	1,238	15	1,355	8	1,238	5	1,315	12	1,331	22	1,450	4	1,348	13	1,318	12	1,395	9	1,435	25	1,643	25	1,643	16,473
512 S. W. Bank (Broad and South) .....	...	475	436	...	483	...	460	...	498	...	460	...	484	...	484	...	472	...	447	...	447	...	468	...	468	5,618
Total	79	10,169	9,118	69	10,294	81	9,815	80	10,140	65	9,599	89	9,985	69	9,565	86	9,745	13	10,078	75	9,931	128	10,485	128	10,485	119,931

THOS. J. CHADWICK, } Operators.
JAMES M. BOYD, }

*Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 6. First Police District.*

Number of Box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
121	22d and Webster streets.....	6	808	5	706	10	806	14	794	16	819	11	795	7	809	13	822	11	789	5	800	9	806	11	798	19,668
122	25th and Christian streets.....	15	1,630	12	1,419	17	1,612	22	1,590	26	1,630	18	1,694	14	1,644	21	1,652	14	1,579	16	1,500	16	1,699	14	1,578	19,232
123	16th and Bainbridge streets.....	9	813	6	711	8	819	11	801	12	822	9	781	8	813	9	817	8	793	7	957	11	1,168	27	1,179	10,599
125	17th and Christian streets.....	8	817	4	709	11	801	10	806	14	816	10	782	9	811	12	827	10	798	6	779	8	794	19	763	19,624
134	Sutherland and Catharine sts.	9	806	3	700	4	805	8	790	11	808	7	771	6	805	4	821	7	785	7	978	5	1,149	14	1,170	10,473
212	Station House.....	12	1,647	16	1,436	16	1,626	20	1,596	22	1,617	17	1,596	15	1,638	27	1,671	17	1,591	13	877	9	786	26	814	17,125
213	Broad and Catharine streets..	5	809	8	706	7	822	10	795	12	806	12	763	8	801	15	809	12	794	12	974	16	1,162	18	1,201	10,577
243	21st and Kater streets.....	5	809	8	706	7	822	10	795	12	806	12	763	8	801	15	809	12	794	12	974	16	1,162	18	1,201	10,577
331	18th and Bainbridge.....	64	7,830	54	6,387	73	7,291	95	7,172	113	7,318	84	7,080	67	7,341	101	7,419	79	7,129	77	7,296	91	9,374	157	9,486	2,946
	Total.....	64	7,830	54	6,387	73	7,291	95	7,172	113	7,318	84	7,080	67	7,341	101	7,419	79	7,129	77	7,296	91	9,374	157	9,486	92,378

ROBERT J. BELL, } Operators.
CHARLES S. SMITH, }

*Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 6. Seventeenth Police District.*

Number of box.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'br.		October.		Nov'br.		December.		TOTAL.
	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
52 Long Lane and Dickinson st....	3	335	.....	322	3	1,130	2	1,037	6	1,193	8	1,102	5	1,027	7	1,216	9	1,192	5	1,103	7	1,018	4	1,021	11,755
124 28th and Dickinson streets....	7	341	10	341	13	1,154	8	1,100	19	1,209	17	1,167	5	1,109	11	1,192	10	1,116	25	1,189	4	1,172	9	1,206	12,454
126 20th and Morris streets....	6	339	5	324	5	752	5	768	11	804	11	792	10	904	15	1,009	11	1,123	11	1,102	5	755	8	783	9,548
132 11th and Federal streets....	14	696	11	638	15	1,057	11	1,139	16	1,225	13	1,155	13	1,150	13	1,203	17	1,309	16	1,242	14	775	13	784	12,568
133 33d and Wharton streets....	6	345	4	328	3	727	6	758	5	793	6	721	5	703	3	906	4	1,015	9	1,021	5	743	5	769	8,839
135 13th and Moore streets....	4	334	8	335	4	721	6	727	8	768	5	712	5	626	6	682	7	634	2	753	2	753	2	797	7,501
143 18th and Passyunk ave.	6	78	.....	71	3	438	.....	479	2	511	1	623	.....	580	.....	591	.....	682	1	682	1	470	2	462	5,582
144 Broad and Reed streets....	12	929	17	891	21	1,342	20	1,369	23	1,422	31	1,408	14	1,502	19	1,706	23	1,691	16	1,594	15	767	16	790	15,580
215 25th and Federal streets....	2	341	1	324	5	733	7	753	8	816	6	823	7	709	4	822	7	853	5	816	6	752	2	781	8,583
222 Mole and Moore streets....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2,401
234 17th and Afton streets....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,685
251 17th and Dickinson....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	1,498
312 35th and Gray's Ferry....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14,307
Station House (20th & Federal)	20	1,985	19	864	15	1,106	29	1,029	26	1,153	34	1,116	33	1,206	16	1,200	23	1,229	22	1,202	30	921	26	1,013	14,307
Sub Station (28th and Jackson)	2	496	5	458	8	573	3	439	4	601	1	599	9	609	2	616	4	702	6	691	3	477	6	462	6,851
Total	82	6,218	80	4,896	95	9,768	96	9,568	133	10,436	133	10,113	106	10,125	96	11,143	115	11,556	121	11,738	99	11,141	112	11,475	119,604

WILLIAM PRIOR, }
 CHARLES BLACK, } *Operators.*
 JAMES J. IPE, }

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 7. Twenty-fifth Police District.

LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'ber.		October.		Nov'ber.		Dec'ber.		TOTAL.	
	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.				
12 Lancaster and Wharton sts.	1	96	1	152	2	247	1	245	3	1	230	6	5	4	7	5	4	7	10	6	8	14	9	7	106	
17 Martin's Village.	5	312	9	467	9	753	14	747	13	223	1	230	231	231	190	190	217	217	224	224	214	206	206	2,493		
33 7th and Dudley sts.	5	312	9	467	9	753	14	747	13	223	1	230	231	231	190	190	217	217	224	224	214	206	206	7,889		
34 13th and Jackson sts.	7	322	7	471	8	775	11	758	18	789	9	765	4	791	6	800	10	785	4	815	9	763	9	797	8,783	
35 6th and Dickinson sts.	4	332	4	470	12	777	16	758	8	789	15	764	5	773	6	703	8	727	13	766	2	739	3	849	8,486	
36 Osage and Moore sts.	7	331	4	467	13	779	10	741	13	783	12	767	5	773	6	703	8	727	13	766	2	739	3	849	8,451	
37 2d and McClellan sts.	2	327	3	465	5	778	5	756	9	782	7	772	8	787	6	762	11	749	5	783	6	747	6	792	8,593	
41 5th and Mifflin sts.	5	333	3	464	6	767	9	749	8	783	4	736	3	773	8	792	10	741	5	783	6	747	6	792	8,483	
42 4th and Morris sts.	1	303	1	305	3	326	2	194	6	783	4	736	3	773	8	792	10	741	5	783	6	747	6	792	8,593	
43 9th and Mifflin sts.	7	332	15	474	18	777	21	755	22	815	19	783	19	778	9	814	10	775	10	811	8	777	9	807	8,865	
44 7th and Wharton sts.	4	18	3	164	6	430	4	337	12	421	8	410	6	511	4	766	3	647	7	495	4	437	5	418	4,989	
122 Weecoo ave. and P. R. R.	3	328	3	469	1	776	5	734	2	775	4	745	3	782	4	791	3	744	3	775	7	726	2	770	8,459	
143 Stone House lane and P. R. R.	80	2	118	1	199	2	231	2	219	1	220	1	220	8	242	1	210	3	210	3	210	3	210	3	217	2,452
144 Broad st. and Oregon ave.	85	104	1	186	1	186	1	180	4	205	3	168	2	264	3	190	2	166	2	175	2	151	1	211	2,070	
231 4th and Wharton sts.	89	1	286	3	644	2	591	2	636	2	656	2	656	2	656	2	598	2	634	1	598	1	642	1	642	6,449
322 Commercial and Snyder aves.	26	166	4	420	1	378	1	411	1	556	2	556	2	556	2	556	2	341	8	336	2	348	7	330	4,003	
Local and Telegraph sub-station, Taylor & Passyunk aves.	1	46	1	67	1	119	1	97	1	114	1	119	1	117	1	109	1	112	1	121	1	120	1	119	1,264	
Total	43	13	40	166	42	406	64	388	60	369	55	390	58	1,501	47	1,887	77	1,766	56	1,905	51	1,835	67	1,950	13,186	
Total	90	3,373	97	5,275	129	9,154	178	8,837	178	9,076	158	8,775	125	10,421	127	10,711	182	10,445	163	11,043	125	10,498	161	11,048	110,346	

EDWARD T. LEWIS,
WM. B. MACTAGUE,
RICHARD H. O'DONNELL, } Operators.

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 8. Twenty-second Police District.

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		TOTAL.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
27	17th and Page streets.....	3	589	3	432	3	591	6	570	9	585	7	571	8	587	7	584	8	563	10	590	2	571	5	576	6,977
31	Graetz and Berks streets.....	4	620	4	728	4	619	4	600	4	622	5	602	6	620	5	623	6	610	6	627	2	608	3	608	7,961
32	Croskey and Berks streets.....	4	806	4	728	4	810	4	780	4	810	5	782	6	811	5	807	6	786	6	810	3	782	3	787	9,549
33	27th and Ridge avenue.....	3	589	3	534	4	585	4	571	4	584	5	572	7	587	6	590	7	573	7	585	2	573	4	580	6,978
34	Ridge ave. & Dauphin street...	2	527	2	476	6	530	5	510	5	526	7	508	7	525	6	521	7	511	7	531	1	516	3	531	6,266
35	27th and Susquehanna avenue	7	465	5	420	6	466	6	450	6	460	5	432	8	461	7	465	8	456	8	468	4	460	5	462	5,560
37	28th and York streets.....	9	541	5	508	4	340	4	380	4	343	5	311	7	347	5	350	6	340	6	340	3	332	3	331	4,081
41	3rd and Huntington streets.....	5	310	4	280	4	312	5	300	5	312	6	298	10	310	6	308	7	291	5	318	3	305	4	305	3,711
142	16th and Indiana avenue.....	5	806	5	728	2	807	5	780	4	808	6	783	8	813	7	815	8	786	8	817	4	783	8	800	9,604
143	15th and Dauphin streets.....	2	434	2	452	4	452	4	470	4	437	6	421	8	452	6	456	6	430	10	453	4	426	7	430	5,162
151	15th and Berks streets.....	4	719	2	1372	2	1528	2	1470	2	1571	3	1430	6	1546	7	1514	2	1471	2	1593	2	1480	5	1493	7,942
152	15th and Montgomery avenue	3	775	2	700	6	1180	7	1170	5	771	6	746	8	776	5	780	8	752	6	783	2	740	7	765	8,161
153	15th and Berks streets.....	2	1147	5	1096	5	1180	7	1141	7	1141	8	1145	8	1158	5	1180	8	1151	8	1151	2	1145	5	1175	13,161
222	12th and Susquehanna avenue	7	775	5	702	5	750	5	750	5	774	6	753	11	775	10	782	6	752	6	783	5	738	5	753	8,962
223	9th and Dauphin streets.....	5	776	5	702	5	753	9	753	9	771	11	775	10	775	10	782	6	752	8	783	5	738	10	753	9,202
224	10th and Cumberland streets...	4	914	5	1094	4	1152	4	1152	5	1141	4	1118	9	1145	8	1158	6	1118	9	1140	5	1105	8	1138	13,578
231	German and Indiana aves.....	4	964	4	988	3	967	8	930	9	969	9	927	4	956	8	950	4	932	2	943	4	920	8	940	11,360
232	Broad and German aves.....	3	744	3	672	3	708	2	700	4	743	3	724	3	748	4	751	3	703	4	718	3	703	2	727	8,771
233	Nicetown lane and P. R. R.....	2	376	2	336	1	372	2	360	4	389	3	362	3	385	4	376	3	370	4	372	2	382	2	376	4,481
Total.....		79	13,709	72	12,886	58	13,788	100	13,266	106	13,711	119	13,287	128	13,730	114	13,731	123	13,274	130	13,752	62	13,338	91	13,625	162,619

E. S. READ,
H. GEKLER, } Operators.
C. SHAW, }

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Twenty-third Police District.

Number of Box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'ber.		October.		Nov'ber.		Dec'ber.		Total.	
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.		
12	22d street and N. College ave.....	1	1,088	3	1,069	1,097	2	1,123	8	1,058	1	869	2	616	453	5	1,029	2	1,035	782	2	849	10,624
13	24th and Wright streets.....	1	1,101	2	1,023	9	1,131	6	1,123	7	1,131	2	1,130	4	1,145	8	1,078	5	1,152	2	1,152	993	5	5	1,083	13,172
17	Ridge and Girard avenues.....	8	1,109	6	1,021	7	1,119	10	1,136	15	1,166	14	1,146	7	1,162	12	1,165	8	1,139	6	1,161	4	1,121	6	1,158	13,706	
18	18th and Selbert streets.....	1	1,512	4	1,376	1	1,498	7	1,533	5	1,555	3	1,564	3	1,060	5	900	3	1,284	3	1,498	4	1,443	4	1,561	16,629	
21	23d street and Columbia ave....	8	1,789	9	1,649	11	1,822	12	1,700	7	1,647	11	1,575	14	1,379	16	1,362	10	1,395	4	1,572	4	1,364	6	1,561	18,915	
22	26th and Redner streets.....	1	573	.....	526	.....	673	2	658	1	692	1	601	6	448	2	202	3	503	1	413	.....	220	.....	161	5,688
23	27th and Jefferson streets.....	1	808	3	737	7	835	7	823	6	841	6	842	8	851	8	983	15	999	11	1,104	9	1,028	5	970	10,967	
24	31st street and Girard ave.....	3	749	9	707	7	738	9	769	24	772	6	767	19	724	15	786	15	746	6	789	9	729	4	767	9,171	
26	26th street and Girard ave.....	3	1,139	3	1,022	5	1,129	8	1,120	6	1,153	6	1,112	10	1,089	6	1,107	11	1,132	9	1,005	4	715	4	742	12,540	
131	Northwestern Bank.....	.....	176	.....	165	.....	177	.....	179	.....	183	.....	178	.....	185	.....	182	.....	183	.....	183	.....	176	.....	180	2,144
132	Carlisle and Stiles streets.....	6	1,159	3	1,038	1	1,126	6	1,132	11	1,189	4	1,201	8	1,155	2	1,290	8	1,200	6	1,236	.....	1,146	4	1,173	14,084
133	Carlisle st. and Columbia ave....	3	1,130	3	1,046	5	1,122	9	1,147	3	1,147	8	1,168	5	1,150	6	1,084	4	1,137	6	1,190	2	1,063	3	1,119	13,561	
134	Wellington and Oxford streets	2	1,165	1	1,073	3	1,152	9	1,138	8	1,229	2	1,191	7	1,215	6	1,331	7	1,224	1	1,245	2	1,211	6	1,223	14,251	
135	3d street and Columbia ave....	2	1,424	.....	285	.....	323	2	292	2	311	2	305	7	188	3	188	1	180	.....	180	.....	246	2	397	3,039
242	Woodstock st. & Montgom'y av.	2	716	1	673	2	760	7	715	3	787	4	692	5	787	2	680	6	730	1	740	.....	682	2	723	8,620
322	26th and Nicholas streets.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	81	3	433	3	880	900
323	26th and Mt. Pleasant streets.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	97	.....	393	2	419	913
Total		41	14,338	47	13,150	61	14,702	97	14,588	101	14,811	70	14,141	105	13,084	91	12,801	96	13,589	56	14,681	45	13,715	58	14,456	163,924	

WILLIAM BABE, JR.,
 GEORGE B. SESINGER,
 ALFRED CRAIGHEAD, } Operators.

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 10. Twenty-fourth Police District.

Number of box.	Location.	January.		February.		March.		April.		May.		June.		July.		August.		Septemb'r.		October.		November.		December.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
42	Richmond and Allegheny av.	3	735	2	680	.....	745	5	780	4	751	4	724	7	671	6	660	3	601	3	616	5	611	5	620	8,191
43	Richmond and Tioga streets...	1	555	2	540	.....	570	1	550	1	562	2	530	8	520	1	525	1	470	4	471	4	49	2	467	6,216
44	Trenton ave. and Tioga street	1	443	3	413	.....	445	1	446	1	439	.....	420	8	411	2	413	5	383	1	390	3	378	2	381	4,960
45	Allegheny ave. and Jasper st.	4	461	.....	420	1	480	3	460	4	501	3	451	.....	416	4	418	1	388	2	391	1	392	4	394	5,199
46	Kensington ave. and Tioga st.	4	655	7	542	1	670	2	658	5	672	1	627	.....	530	9	520	3	500	4	498	3	478	4	492	6,884
51	Somerset and Falethorp sts...	5	710	6	640	8	785	4	709	8	729	3	710	7	646	4	641	18	620	10	624	6	627	11	634	8,115
52	Somerset and Oakney streets...	5	674	4	615	14	700	15	673	10	698	5	680	10	622	14	639	8	618	5	635	4	631	6	620	7,906
53	Kensington ave. and "C" st.	4	380	1	807	7	970	15	970	6	977	9	888	11	810	10	804	9	768	6	780	6	739	6	784	10,387
54	Somerset and Gaul streets....	.....	410	1	413	2	456	.....	408	1	433	1	403	.....	415	.....	410	.....	382	.....	380	1	378	.....	377	4,852
55	Richmond and William sts....	11	537	9	480	12	550	12	535	12	552	13	520	8	450	5	452	10	436	14	424	8	430	11	428	5,969
123	Fifth street and Indiana ave.	1	780	2	690	3	731	3	719	5	788	3	710	4	681	9	674	6	612	5	628	5	630	6	627	8,459
124	Howard and Cambria streets...	1	745	4	670	5	779	2	740	7	784	3	738	.....	683	2	640	8	609	3	612	3	626	2	619	8,239
125	Frankford and Erie avenues...	3	770	.....	682	.....	760	.....	769	3	771	3	733	1	693	3	662	1	614	.....	570	.....	584	.....	630	8,388
131	Lehigh ave. and Thompson st	1	584	5	521	.....	585	4	560	2	602	3	530	2	535	4	530	2	510	3	514	2	502	5	508	6,496
241	Trenton ave. and Auburn st.	4	721	2	660	5	740	4	724	5	744	5	718	5	656	4	644	6	600	.....	622	3	615	3	620	8,110
	Total	47	9,740	48	8,793	61	9,977	71	9,706	74	10,003	53	9,402	73	8,706	79	8,642	81	8,111	60	8,194	52	8,180	57	8,201	108,371

W. L. HARMER,
JAMES CUMMINGS,
GEORGE W. GENTEL,

Operators.

Showing the number of calls from each box in the Police Signal and Telephone System during the year 1891.
Patrol No. 11. Ninth Police District.

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		TOTAL.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
4	26th and Perot streets.....	1,209	3	1,100	3	1,210	3	1,187	4	1,210	3	1,190	4	1,183	4	1,102	4	1,186	8	1,207	2	1,190	3	1,189	3	14,209
5	Taney and Poplar streets.....	0	868	2	804	3	869	4	835	3	840	2	832	4	849	1	823	...	837	2	869	1	829	1	831	10,099
6	Corinthian and Fairmount.....	1	1,933	1	1,773	3	1,942	1	1,921	5	1,948	6	1,941	4	1,947	5	1,849	6	1,918	3	1,939	1	1,892	1	1,912	22,972
7	15th and Wood streets.....	17	1,054	13	974	7	1,032	18	1,015	15	1,112	7	1,013	17	1,018	12	1,020	16	1,015	11	1,049	6	1,061	11	1,069	12,392
8	16th and Buttonwood streets....	4	1,519	5	1,396	2	1,517	1	1,485	4	1,519	3	1,520	4	1,524	3	1,469	2	1,462	4	1,519	6	1,520	8	1,518	18,014
9	15th and Fairmount ave.....	10	1,550	6	1,423	7	1,547	10	1,516	17	1,562	13	1,571	12	1,573	13	1,528	16	1,521	14	1,548	14	1,493	9	1,505	18,476
12	19th and Fairmount ave.....	1	2,294	5	2,092	5	2,294	...	2,261	9	2,302	8	2,300	8	2,320	8	2,186	13	2,238	8	2,297	6	2,286	10	2,278	27,229
13	24th and Spring Garden sts....	1	1,705	10	1,588	12	1,725	7	1,684	8	1,729	15	1,698	15	1,720	12	1,709	17	1,690	10	1,730	6	1,741	9	1,753	20,570
14	21st and Hamilton streets.....	14	2,294	13	2,088	22	2,298	10	2,223	24	2,296	27	2,172	28	2,170	19	2,190	36	2,219	22	2,283	14	2,283	20	2,289	27,063
15	24th and Callowhill streets....	17	1,302	8	1,197	16	1,302	15	1,278	35	1,312	33	1,311	20	1,310	30	1,301	35	1,278	33	1,296	17	1,303	16	1,305	15,770
16	Ridge ave. and Ogden street....	7	2,046	6	1,871	1	2,036	7	2,035	5	2,039	10	2,019	3	2,015	6	2,031	5	2,039	7	2,037	5	2,062	11	2,045	24,338
25	29th and Parrish streets.....	3	744	1	635	1	742	1	705	2	737	3	739	4	769	4	722	3	716	...	741	1	731	1	732	8,947
513	Broad and Hamilton streets....	...	403	...	385	...	385	2	384	5	379	1	382	...	380	1	361	1	387	3	389	2	386	1	386	4,016
Local	Keystone Watchcase Co.....	...	341	...	308	...	341	...	341	...	341	...	330	...	341	...	341	...	330	...	341	...	330	...	341	4,016
Local	Main Station (23d & Brown)...	7	830	6	645	13	758	13	735	11	696	15	713	18	801	11	671	12	688	18	616	14	714	22	801	8,747
Local	Sub. Station (1725 Wood st.)...	31	31	31	37	37	37	37	37	37	37	41	40	40	40	32	32	41	41	34	34	24	24	32	32	419
Local	8th District Station House....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	74
Local	Central Station.....	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	69
Local	Fire Boxes.....	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	27
Total.....		137	20,112	125	13,219	143	20,025	143	19,614	189	20,040	201	19,751	186	19,920	176	19,301	222	19,594	188	19,871	131	19,881	171	20,004	238,275

WM. H. FRANCIS, JR., } Operators.
GEO. W. MORRIS, }

*Showing the number of calls from each box in the Police signal and Telephone system, during the year 1891.
Patrol No 12. Fifteenth Police District.*

LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'ber.		October.		Nov'ber.		Dec'ber.		TOTAL.
	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.			
131 Frankford avenue and Bridge.	1	806	1	728	1	806	1	780	1	806	1	780	1	806	1	806	2	780	1	806	1	780	1	806	9,498
152 Frankford ave. & Oxford pike.	3	806	5	728	6	806	1	780	4	806	6	780	5	806	9	806	7	780	9	806	9	780	9	806	9,560
153 Oxford & Edmond streets.	3	806	1	728	1	806	4	780	4	806	6	780	4	806	1	806	7	780	4	806	4	780	4	806	9,535
212 Bridge and Tacony streets.	3	806	4	728	2	806	5	780	7	806	2	780	1	806	2	806	3	780	7	806	2	780	4	806	9,532
213 Church and Tacony streets.	7	620	11	588	5	620	2	600	8	620	11	600	4	620	4	620	5	600	4	620	5	600	3	620	7,397
214 Orthodox and Pearce streets.	1	806	3	728	5	806	2	780	1	806	1	780	1	806	4	806	2	780	4	806	1	780	2	806	9,505
215 Frankford ave. and Mill street.	1	620	1	588	3	620	2	600	3	620	2	600	3	620	1	620	2	600	2	620	2	600	8	620	7,358
312 Takawanna & Linden streets.	1	80	1	728	3	806	1	780	4	806	3	780	1	806	2	806	1	780	2	806	2	780	4	806	9,507
313 Adams and Sellers streets.	5	806	.....	728	5	806	6	780	2	806	3	780	1	806	4	806	5	780	4	806	6	780	4	806	9,535
333 Frankford ave. & Sellers st.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	816	
Total.....	24	6,832	26	6,272	25	6,832	22	6,660	35	6,882	29	6,610	20	6,882	24	6,882	34	6,660	38	6,832	29	6,650	45	7,688	82,248

CHAS. B. SHALLCROSS, } Operators.
MALCOM MURRAY, }

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 19. Eighteenth Police District.

Number of box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'ber.		October.		November.		December.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
3	Third and Norris streets	39	1,589	38	1,441	22	1,572	23	1,534	22	1,577	16	1,517	19	1,568	37	1,587	20	1,521	26	1,576	17	1,518	21	1,567	18,862
4	Third and Columbia avenue.....	20	1,167	14	1,053	28	1,175	19	1,130	29	1,173	22	1,133	17	1,164	38	1,185	26	1,137	20	1,167	27	1,138	21	1,168	14,074
5	Third and Columbia avenue.....	6	768	7	682	10	682	12	733	4	773	9	730	7	751	6	746	6	727	8	747	5	726	5	749	8,990
6	Sixth and Diamond streets.....	7	1,157	8	1,042	13	1,160	16	1,127	10	1,157	14	1,125	6	1,153	4	1,151	7	1,119	5	1,152	8	1,114	7	1,154	13,707
241	Eighth and York streets.....	5	1,152	4	1,047	3	1,173	6	1,117	4	1,151	3	1,114	4	1,151	4	1,153	7	1,118	2	1,149	2	1,133	6	1,153	13,671
242	Germantown & Lehigh aves.....	4	747	2	677	1	745	5	695	6	719	3	724	5	749	5	762	2	723	3	717	3	724	2	746	8,789
243	Ortney and Huntington sts.....	9	1,163	7	1,087	12	1,159	9	1,089	13	1,160	13	1,124	7	1,154	7	1,161	8	1,133	10	1,157	5	1,137	8	1,155	13,787
312	Front and Huntington sts.....	11	1,158	18	1,098	10	1,157	12	1,092	30	1,177	22	1,133	20	1,167	26	1,173	20	1,131	8	1,15	12	1,123	10	1,157	13,920
313	Front and York streets.....	20	1,570	27	1,497	31	1,531	32	1,502	29	1,579	26	1,527	23	1,573	13	1,563	30	1,531	23	1,573	23	1,524	16	1,566	18,879
314	Third and Susquehanna avenue.....	8	1,558	13	1,483	5	1,555	16	1,486	7	1,557	27	1,528	15	1,565	19	1,569	20	1,521	11	1,561	10	1,511	6	1,566	18,617
413	Hope and Columbia avenue.....	19	1,573	10	1,480	10	1,560	12	1,482	14	1,590	20	1,521	18	1,568	19	1,577	13	1,514	12	1,562	15	1,516	16	1,573	18,694
.....	Twenty-sixth District.....	39	269	49	254	46	195	70	189	40	243	51	175	69	162	67	201	72	184	56	149	65	158	72	22	2,968
.....	Tenth District.....	1	1	1	1	2	2	2	5	5	3	5	5	4	4	4	4	2	2	1	1	1	1	1	1	60
.....	Eleventh District.....	1	1	1	1	1	1	1	5	5	3	5	6	3	3	3	3	1	1	1	1	1	1	1	7	68
.....	Twelfth District.....	2	2	1	1	2	2	2	3	3	2	3	3	1	1	1	1	1	1	1	1	1	1	2	2	50
.....	Miscellaneous.....	43	37	37	.....	47	47	38	38	58	58	47	47	40	40	40	40	50	50	47	47	50	50	48	48	1,090
Total.....		234	13,853	233	12,862	244	13,868	283	13,227	274	13,945	288	13,413	257	13,773	293	13,890	288	13,865	282	13,748	240	13,875	243	13,813	166,286

JOHN L. COON,
CHARLES FOWLER,
JAMES NICE, } Operators.

*Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 13. Twenty-sixth Police District.*

Number of Box.	Location.	January.		February.		March.		April.		May.		June.		July.		August.		Sept'ber.		October.		Nove'ber.		Dec'ber.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
221	Frankford av. and Adams st.	7	1,177	3	1,060	3	1,173	2	1,134	3	1,173	6	1,138	6	1,176	6	1,176	7	1,139	5	1,175	3	1,135	8	1,173	13,888
222	Huntington and Emerald sta.	11	1,584	8	1,429	9	1,582	6	1,528	14	1,587	6	1,528	18	1,591	14	1,587	17	1,589	10	1,187	11	1,141	12	1,177	17,596
223	Cedar and Norris streets.	...	1,573	...	1,421	...	1,575	...	1,522	...	1,575	...	1,524	...	1,573	...	1,578	...	1,522	...	1,188	...	1,143	...	1,177	16,545
224	Emerald and Dauphin streets.	...	832	...	756	...	835	...	809	...	831	...	815	...	835	...	834	...	808	...	838	...	804	...	832	9,901
225	Blair and Norris streets.	...	1,172	...	1,062	...	1,174	...	1,137	...	1,170	...	1,134	...	1,174	...	1,173	...	1,136	...	1,174	...	1,134	...	1,173	13,854
231	Almond and York streets.	4	771	5	694	2	769	3	745	4	771	4	746	4	771	3	770	4	746	2	769	3	743	1	763	9,093
232	Adams and Memphis streets.	2	1,172	2	1,059	4	1,174	...	1,132	1	1,171	1	1,133	2	1,172	4	1,174	2	1,134	4	1,174	3	1,133	...	1,165	13,818
233	Huntington and Cedar sta.	...	1,170	...	1,059	...	1,174	...	1,140	...	1,171	...	1,140	...	1,172	...	1,176	...	1,172	...	1,172	...	1,135	...	1,168	13,886
234	Huntington and Trenton ave.	2	1,769	3	1,696	6	1,773	5	1,747	4	1,771	1	1,743	8	1,775	4	1,771	13	1,755	...	1,772	4	1,743	6	1,772	8,472
341	Cumberland and Jasper sta.	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,974
		31	10,220	31	9,236	40	10,229	36	9,894	34	10,223	41	9,899	57	10,246	50	10,289	61	9,919	52	9,825	58	9,140	53	9,413	119,027

WILLIAM C. McCAY, } Operators.
JAMES M. TRINDLE, }

Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. 14. Fourteenth Police District.

Number of Box.	LOCATION.	January.		February.		March.		April.		May.		June.		July.		August.		Sept' ber.		October.		Nov' ber.		Dec' ber.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
4	German'town & Chelton ayes...	369	1	333	1	360	1	370	1	370	1	370	1	370	1	370	1	370	1	370	1	370	1	370	1	4,354
5	Allen's lane and Penna. E. R....	36	1	82	1	180	1	187	1	187	1	187	1	187	1	187	1	187	1	187	1	187	1	187	1	2,093
6	Chelton avenue, 19 Engine....	4	1	109	1	161	1	186	1	186	1	186	1	186	1	186	1	186	1	186	1	186	1	186	1	2,297
7	German'town ave. & Crashtin st....	37	1	37	1	37	1	37	1	37	1	37	1	37	1	37	1	37	1	37	1	37	1	37	1	2,384
8	Willow street and P. R. R....	1	1	242	1	314	1	321	1	321	1	321	1	321	1	321	1	321	1	321	1	321	1	321	1	2,540
9	Chesnut Hill P. R. R. Depot....	3	1	177	1	372	1	356	1	356	1	356	1	356	1	356	1	356	1	356	1	356	1	356	1	3,739
10	Queen street and Pulaski st....	378	1	371	1	415	1	422	1	422	1	422	1	422	1	422	1	422	1	422	1	422	1	422	1	4,686
11	German'town ave. & Johnson st....	319	1	403	1	421	1	432	1	432	1	432	1	432	1	432	1	432	1	432	1	432	1	432	1	5,283
12	German'town and Stenton ayes....	452	1	431	1	408	1	423	1	423	1	423	1	423	1	423	1	423	1	423	1	423	1	423	1	5,400
13	Haines street, Philadelphia....	211	1	382	1	332	1	327	1	327	1	327	1	327	1	327	1	327	1	327	1	327	1	327	1	3,909
14	Graves street, Philadelphia....	201	1	222	1	240	1	246	1	246	1	246	1	246	1	246	1	246	1	246	1	246	1	246	1	4,741
15	Chestnut Hill P. R. R. Rd. and 7th Green and Cedar streets....	190	1	172	1	198	1	208	1	208	1	208	1	208	1	208	1	208	1	208	1	208	1	208	1	4,350
16	York road and Mill streets....	220	1	189	1	221	1	248	1	248	1	248	1	248	1	248	1	248	1	248	1	248	1	248	1	4,350
17	Haines and Wilson streets....	537	1	542	1	440	1	427	1	427	1	427	1	427	1	427	1	427	1	427	1	427	1	427	1	5,014
18	Wakfield and Ashmead sts....	474	1	469	1	434	1	438	1	438	1	438	1	438	1	438	1	438	1	438	1	438	1	438	1	4,897
19	German'town ave. and School st....	632	1	564	1	643	1	638	1	638	1	638	1	638	1	638	1	638	1	638	1	638	1	638	1	5,645
20	Tulpehooken st. and P. R. R....	1	1	292	1	281	1	265	1	265	1	265	1	265	1	265	1	265	1	265	1	265	1	265	1	7,397
21	Mill street and Stenton ave....	276	1	247	1	245	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	339	1	3,794
22	Oak lane and N. P. R. R....	338	1	318	1	356	1	373	1	373	1	373	1	373	1	373	1	373	1	373	1	373	1	373	1	4,246
23	Wissahickon ave. and School st....	637	1	630	1	654	1	647	1	647	1	647	1	647	1	647	1	647	1	647	1	647	1	647	1	7,864
24	30th street and Rex avenue....	230	1	230	1	233	1	230	1	230	1	230	1	230	1	230	1	230	1	230	1	230	1	230	1	3,577
25	Locust and Willow avenues....	194	1	234	1	234	1	245	1	245	1	245	1	245	1	245	1	245	1	245	1	245	1	245	1	3,419
26	Chelton and Pulaski avenues....	392	1	367	1	399	1	417	1	417	1	417	1	417	1	417	1	417	1	417	1	417	1	417	1	4,734
27	Fisher's lane and York road....	324	1	328	1	362	1	386	1	386	1	386	1	386	1	386	1	386	1	386	1	386	1	386	1	4,788
28	German'town and Mt. Airy ayes....	332	1	328	1	332	1	332	1	332	1	332	1	332	1	332	1	332	1	332	1	332	1	332	1	4,391
29	Clinton st. and Wister st....	334	1	277	1	319	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	3,869
30	German'town and Wyoming ayes....	334	1	277	1	319	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	331	1	3,869
31	Total.....	29	9,540	36	9,149	55	10,643	40	10,633	70	10,694	60	9,854	93	9,879	58	9,845	83	10,546	70	10,589	44	10,118	73	10,885	122,885

RITTENHOUSE FRALEY, }
 OLIVER SKILTON, } Operators.
 WILLIAM M. WILSON, }

*Showing the number of calls from each box in the Police Signal and Telephone System, during the year 1891.
Patrol No. Eleventh Police District.*

Number of box.	Location.	January.		February.		March.		April.		May.		June.		July.		August.		September.		October.		November.		December.		Total.
		Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	Wagon.	Telephone.	
122	Laurel and Frankford ave.....	734	698	734	791	742	794	730	810	756	765	751	762	743	743	9,096										
73	Marlborough and Beach.....	1,118	1,055	1,199	1,198	1,126	1,169	1,014	1,022	937	1,102	1,170	1,149	1,162	1,162	13,223										
72	Palmer and Beach.....	1,947	967	1,104	943	944	943	861	861	865	1,045	1,075	978	1,060	1,060	11,874										
71	Otis and Beach.....	763	681	783	783	761	769	823	840	687	747	810	824	751	751	7,927										
61	Plum and Richmond st.....	783	690	783	783	784	789	861	861	706	726	789	763	763	763	8,724										
62	Cumberland and Richmond st.....	408	371	413	413	405	428	837	837	837	973	1,004	983	763	763	6,769										
63	Funtingdon and Edgmont.....	1,127	1,032	1,203	1,203	1,135	1,178	987	803	850	979	1,004	983	972	972	12,868										
58	Lehigh ave. and Richmond st.....	1,117	1,062	1,202	1,181	1,197	1,076	1,076	990	823	994	1,037	976	996	996	12,623										
292	Thompson and Savery st.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	626	1,166	1,144	1,144	2,396
315	Belgrade and Palmer st.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	875	1,552	1,551	1,551	3,961
321	Belgrade and Otis st.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	593	1,059	1,052	1,052	2,704
	Total.....	7,037	6,586	7,485	6,941	7,240	6,325	6,478	6,297	6,875	9,194	10,759	10,953	10,953	92,220											

LORENZO F. WILSON, } Operators.
CHARLES C. KENNEY, }

*Showing the number of calls from each box in the Police
Signal and Telephone System, during the year 1891.
Patrol No. . Tenth Police District.*

Number of box.	LOCATION.	November	December	Total.
		Telephone.	Telephone.	
412	Front and Girard avenue.....	1,188	1,364	2,552
418	Front and Laurel streets.....	594	682	1,276
414	Beach and Poplar streets.....	497	654	1,151
421	Second and Girard avenue.....	1,782	2,015	3,797
422	Second and Beaver streets.....	1,654	1,975	3,629
423	Fourth and George streets.....	1,075	1,245	2,320
431	Fifth and Girard avenue.....	1,614	1,733	3,347
432	Fifth and Oxford streets.....	541	584	1,145
512	Germantown road and Jefferson street.....	543	633	1,176
518	Fourth and Master streets.....	891	972	1,863
521	American and Master streets.....	1,068	1,244	2,312
522	Mascher and Oxford streets.....	496	582	1,078
	Total.....	11,983	13,683	25,666

JAMES DOUGHERTY, }
LEWIS TRAMPE, } Operators.

Showing the Box in each District having the Greatest Number of Wagon Calls during 1891.

DISTRICTS.	Number of box.	LOCATION.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
First.....	122	Twenty-fifth and Christian streets.....	15	12	17	22	25	18	14	21	14	16	16	14	205
Second.....	42	Seventh and Bainbridge streets.....	65	47	45	61	76	48	52	69	50	48	62	43	662
Third.....	44	Sixth and St. Mary streets.....	82	78	86	77	91	96	119	131	121	106	89	98	1,174
Fourth.....	931	Second and Arch streets.....	11	18	10	15	18	14	16	9	12	12	17	22	174
Fifth.....	23	Eighteenth and Lombard streets.....	25	19	24	22	18	14	23	25	26	19	12	22	250
Sixth.....	482	Ninth and Market streets.....	15	20	23	31	17	22	13	12	12	18	20	36	289
Seventh.....	15	Twenty-fourth and Calowhill streets.....	17	8	16	15	35	33	20	30	35	33	17	16	275
Eighth.....	15	Chelton avenue—Engine 16.....	4	5	10	14	12	9	11	13	18	18	8	17	139
Ninth.....	6	Frankford avenue and Oxford pike.....	3	5	6	1	5	4	5	9	7	9	7	9	70
Tenth.....	182	Fiftieth street and Lancaster avenue.....	11	9	12	40	50	61	40	44	43	22	7	4	343
Eleventh.....	224	Broad and Reed streets.....	12	17	21	20	31	14	19	23	16	15	15	18	234
Twelfth.....	144	Third and Norris streets.....	39	38	22	23	22	16	18	37	20	26	17	17	295
Thirteenth.....	286	Eighth and Sansom streets.....	25	22	11	19	17	17	12	17	12	23	16	18	209
Fourteenth.....	63	Twentieth and Market streets.....	12	12	15	10	8	6	8	6	8	11	14	16	134
Fifteenth.....	37	Thirtieth and Dauphin streets.....	6	7	5	5	7	15	6	13	11	18	9	13	117
Sixteenth.....	51	Ninth and Dauphin streets.....	5	5	4	10	9	11	6	10	6	8	5	10	89
Seventeenth.....	223	Thirty-first street and Girard avenue.....	3	3	7	9	24	6	19	15	15	6	9	4	126
Eighteenth.....	224	Richmond and William streets.....	11	9	12	12	12	13	8	5	10	14	8	11	126
Nineteenth.....	55	Ninth and Mifflin streets.....	7	15	18	21	22	19	19	9	10	10	8	9	167
Twentieth.....	43	Huntingdon and Emerald streets.....	11	8	9	6	14	6	18	14	17	10	11	12	136
Twenty-first.....	222														
Twenty-second.....															
Twenty-third.....															
Twenty-fourth.....															
Twenty-fifth.....															
Twenty-sixth.....															

Synopsis of Wagon Calls of the Various Patrols for the Year 1891.

MONTHS.	No. 1 PATROL.					No. 2 PATROL.					No. 3 PATROL.				
	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.
January	316	72	16	411	815	75	23	5	24	127	73	25	6	18	122
February	391	52	15	458	916	56	19	4	9	88	90	23	3	31	147
March	354	64	19	457	934	66	18	2	11	97	83	26	.....	22	181
April	394	68	26	488	976	98	25	2	25	150	130	21	.....	22	173
May	381	67	22	440	840	87	27	6	38	158	149	16	3	40	208
June	452	78	18	468	1,096	87	32	10	21	150	167	39	6	35	247
July	431	79	31	541	1,082	90	29	5	21	145	160	21	8	37	226
August	694	92	28	814	1,628	105	11	3	24	143	141	29	4	31	205
September	708	76	23	817	1,624	92	29	1	18	140	134	21	.....	37	192
October	429	47	19	495	990	91	26	5	36	158	115	26	4	25	170
November	432	60	24	456	972	65	25	2	15	107	85	20	7	26	138
December	502	78	32	612	1,224	92	21	6	23	142	86	14	9	30	139
Total	5,164	883	278	6,527	13,097	1,004	286	51	285	1,605	1,413	281	50	354	2,098

Synopsis of Wagon Calls of the Various Patrols for the Year 1891.

MONTHS.	No. 4 PATROL.					No. 5 PATROL.					No. 6 PATROL.				
	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.
January.....	264	48	3	30	345	247	23	1	38	309	108	25	1	12	146
February.....	238	39	9	25	311	267	44	3	37	315	100	15	3	16	134
March.....	294	45	9	34	382	286	34	1	69	340	127	22	5	14	168
April.....	321	53	13	46	433	277	41	5	41	364	155	16	3	17	191
May.....	304	65	7	63	439	345	72	8	72	497	184	19	9	84	246
June.....	243	65	13	37	358	281	51	4	44	380	139	43	5	30	217
July.....	285	55	2	88	360	347	30	3	41	421	112	36	4	21	178
August.....	320	59	5	31	415	354	48	.....	40	442	127	38	4	28	197
September.....	361	43	5	35	449	313	35	1	39	388	146	22	2	24	194
October.....	330	55	3	43	431	330	16	3	28	377	145	27	2	24	198
November.....	272	47	5	24	348	276	22	6	28	332	138	23	8	21	190
December.....	353	61	6	34	454	338	41	33	37	419	208	25	3	33	269
Total.....	3,565	640	80	440	4,725	3,611	467	38	415	4,620	1,689	311	49	274	2,393

Synopsis of Wagon Calls of the Various Patrols for the year 1891.

MONTHS.	No. 7 PATROL.					No. 8 PATROL.					No. 9 PATROL.				
	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.
January.....	46	25	1	18	90	50	15	5	9	79	32	14	3	12	61
February.....	60	18	2	17	97	56	7	3	6	72	44	4	.....	10	58
March.....	81	23	2	18	129	36	12	2	8	58	45	8	1	17	71
April.....	97	30	3	38	168	69	20	1	10	100	82	15	1	17	115
May.....	96	34	9	39	178	70	19	3	4	96	78	9	3	31	121
June.....	83	24	2	49	158	88	18	5	8	119	59	8	.....	10	77
July.....	59	22	4	40	125	92	24	1	11	123	83	13	4	25	130
August.....	74	25	2	26	127	93	14	2	5	114	83	10	2	13	108
September.....	122	26	2	32	182	98	14	5	6	123	75	15	.....	11	101
October.....	87	22	.....	44	153	101	14	3	12	130	41	7	.....	10	58
November.....	79	22	3	21	125	39	16	3	4	62	33	13	1	14	61
December.....	120	27	.....	14	161	75	17	4	5	101	52	11	.....	15	78
Totals	1,004	303	30	356	1,693	867	190	37	88	1,182	707	132	15	135	1,089

Synopsis of Wagon Calls of the Various Patrols for the year 1891.

MONTHS.	No. 10 PATROL.						No. 11 PATROL.					No. 12 PATROL.				
	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.		Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison-ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.
January	54	14	1	17	86		91	31	2	13	137	25	15	1	15	56
February	50	11	1	14	76		78	31	3	13	125	33	3	.....	8	44
March	73	12	1	16	102		98	22	3	20	143	40	5	1	12	53
April	67	15	3	32	117		104	17	3	19	143	30	16	3	19	68
May	79	16	3	35	133		134	33	.....	22	139	40	16	5	7	63
June	69	9	2	27	107		153	30	3	15	201	29	17	1	3	50
July	89	23	1	26	139		139	36	1	10	186	33	18	3	9	63
August	96	21	6	17	140		126	40	2	8	176	57	23	8	1	89
September	107	17	1	15	140		169	35	2	16	222	41	20	.....	7	63
October	82	15	1	20	118		130	37	2	19	188	41	17	.....	9	67
November	60	16	.....	19	96		95	19	3	14	131	48	13	1	5	67
December	73	28	9	14	124		135	28	3	5	171	51	9	4	8	72
Total	900	197	29	251	1,377		1,452	359	27	174	2,012	468	172	27	103	770

Synopsis of Wagon Calls of the Various Patrols for the Year 1891.

MONTHS.	No. 13 PATROL.					No. 14 PATROL.					TOTAL WAGON CALLS.
	Conveyance of Prison- ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	Conveyance of Prison- ers.	Conveyance of Injured Persons.	Conveyance of Officers to and from Fires.	Miscellaneous.	Total Wagon Calls.	
January.....	202	19	.....	44	285	31	4	2	3	40	2,678
February.....	200	25	2	37	264	34	3	.....	7	44	2,727
March.....	204	23	7	50	284	43	3	3	15	64	2,961
April.....	257	19	1	42	319	46	5	5	8	64	3,381
May.....	220	21	6	61	308	62	16	.....	12	90	3,571
June.....	227	47	6	49	329	52	10	5	18	85	3,574
July.....	240	25	6	43	314	102	5	3	14	124	3,616
August.....	252	37	9	45	343	54	10	1	10	75	4,202
September.....	252	39	5	53	349	78	7	2	21	108	4,280
October.....	210	24	2	48	284	62	9	3	12	86	3,408
November.....	226	17	3	52	298	45	3	4	8	60	2,986
December.....	212	32	4	48	296	71	5	7	7	90	3,740
Total.....	2,702	328	51	572	3,633	680	80	35	135	980	41,124

Showing the Box in each District having the Greatest Number of Telephone Calls in 1891.

Districts.	Number of box.	Location.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
First.....	122	25th and Christian streets.....	1,630	1,499	1,612	1,590	1,630	1,594	1,644	1,652	1,579	1,500	1,599	1,578	19,027
Second.....	52	Passyunk ave. and Catharine streets.....	1,693	1,437	1,554	1,593	1,555	1,512	1,557	1,557	1,506	1,556	1,504	1,559	18,997
Third.....	34	6th and St. Mary streets.....	1,001	912	991	982	1,019	1,040	1,080	1,099	1,062	1,049	996	993	12,668
Fourth.....	83	6th and Arch streets.....	1,984	1,791	1,988	1,987	1,904	1,820	1,875	1,797	1,846	1,839	1,808	1,801	19,688
Fifth.....	141	26th and Naudain streets.....	1,319	1,107	1,278	1,265	1,271	1,128	1,203	1,243	1,215	1,223	1,158	1,210	14,892
Sixth.....	34	10th and Arch streets.....	1,922	1,815	1,916	1,797	1,865	1,834	1,821	1,727	1,843	1,845	1,795	1,807	19,075
Seventh.....	192	19th and Fairmount ave.....	2,294	2,092	2,294	2,261	2,302	2,300	2,320	2,186	2,238	2,297	2,285	2,278	27,148
Eighth.....	421	2d and Girard streets.....	1,118	1,055	1,199	1,128	1,169	1,014	1,022	935	1,102	1,170	1,149	1,162	13,797
Ninth.....	73	Marlborough and Beach streets.....	1,632	1,564	1,643	1,638	1,629	1,558	1,627	1,618	1,588	1,618	1,604	1,602	18,223
Tenth.....	125	Germania ave. and School Lane.....	1,682	1,564	1,643	1,638	1,629	1,558	1,627	1,618	1,588	1,618	1,604	1,602	18,223
Eleventh.....	125	Frankford ave. and Oxford street.....	806	728	806	780	806	780	806	806	780	806	780	806	9,490
Twelfth.....	125	Frankford ave. and Oxford street.....	2,111	1,961	2,358	2,273	1,958	2,123	1,875	1,774	1,791	1,940	1,693	1,698	21,188
Thirteenth.....	422	36th and Rockland streets.....	1,929	1,891	1,942	1,399	1,422	1,403	1,502	1,674	1,691	1,504	1,757	1,790	15,346
Fourteenth.....	144	Broad and Reed streets.....	1,570	1,497	1,581	1,502	1,579	1,527	1,573	1,583	1,511	1,573	1,524	1,556	18,586
Fifteenth.....	312	Front and York streets.....	1,991	1,774	1,989	1,952	1,989	1,851	2,013	1,989	1,869	1,980	1,900	1,838	23,199
Sixteenth.....	134	10th and Rodman streets.....	1,991	1,774	1,989	1,952	1,989	1,851	2,013	1,989	1,869	1,980	1,900	1,838	23,199
Seventeenth.....	412	16th and Race streets.....	806	716	886	785	1,740	699	704	782	792	824	785	789	9,261
Eighteenth.....	76	38th and Sanson streets.....	2,025	1,879	2,073	1,974	2,035	1,696	1,747	1,575	1,910	1,940	1,642	1,763	22,269
Nineteenth.....	143	18th and Dauphin streets.....	1,519	1,372	1,526	1,470	1,517	1,480	1,520	1,514	1,471	1,503	1,480	1,503	17,475
Twentieth.....	21	2d and Columbia ave.....	1,749	1,822	1,700	1,647	1,647	1,575	1,379	1,362	1,395	1,572	1,364	1,451	18,743
Twenty-first.....	53	Kennington ave and C street.....	980	807	970	970	977	888	810	804	768	780	759	784	10,297
Twenty-second.....	43	9th and Mifflin streets.....	332	474	777	755	815	763	778	814	775	811	777	807	8,661
Twenty-third.....	43	9th and Mifflin streets.....	332	474	777	755	815	763	778	814	775	811	777	807	8,661
Twenty-fourth.....	53	9th and Mifflin streets.....	332	474	777	755	815	763	778	814	775	811	777	807	8,661
Twenty-fifth.....	43	9th and Mifflin streets.....	332	474	777	755	815	763	778	814	775	811	777	807	8,661
Twenty-sixth.....	222	Huntingdon and Emerald streets.....	1,584	1,429	1,582	1,528	1,587	1,528	1,591	1,567	1,589	1,187	1,141	1,177	17,460

Summary of Operations of the Fire Telegraph, 1891.

Months.	First. alarms sounded.	Second alarms.	Third alarms.	Fourth alarms.	False alarms.	Total.
January	40	1	1	.....	.....	42
February.....	37	3	.....	.....	.....	40
March	44	2	.....	.....	.....	46
April	49	2	1	.....	.....	52
May.....	63	3	.....	.....	.....	66
June.....	68	2	.....	.....	.....	70
July.....	47	4	.....	.....	.....	51
August	43	.....	.....	.....	.....	46
September	28	2	1	1	.....	32
October	31	.....	.....	.....	.....	31
November	46	2	1	.....	.....	49
December	64	3	2	.....	.....	69
Total.....	560	24	6	1	.....	591

Showing number of Alarms for each Hour of the Day for the year 1891.

MONTHS.	A. M.						P. M.						Total Day Alarms.	P. M.						A. M.						Total Night Alarms.	Total	
	6	7	8	9	10	11	12	1	2	3	4	5		6	7	8	9	10	11	12	1	2	3	4	5			
January	2	2	1	4	3	.....	1	1	.....	.....	.....	3	17	3	3	.....	3	7	1	6	1	.....	.....	.....	1	25	42
February	5	1	1	2	3	1	1	.....	1	.....	3	2	20	2	3	2	3	.....	.....	3	1	.....	1	2	3	20	40
March .....	.....	.....	1	1	2	1	2	3	.....	1	3	1	15	3	4	1	6	5	2	6	1	2	.....	1	.....	31	46
April .....	.....	1	3	3	3	2	1	2	3	2	4	2	26	5	7	1	1	.....	3	1	1	3	2	1	1	26	52
May .....	.....	.....	3	.....	.....	.....	5	3	9	2	1	5	28	2	6	8	3	1	3	5	2	2	2	1	3	38	66
June	3	2	1	5	2	2	3	5	1	1	3	2	30	4	3	2	3	3	4	5	6	5	2	2	1	40	70	
July .....	.....	.....	2	4	3	1	4	1	2	2	2	2	23	5	3	2	5	3	.....	2	3	1	1	2	1	28	51
August .....	.....	2	.....	.....	3	.....	1	1	1	2	1	3	14	1	6	4	1	3	3	7	1	2	1	.....	.....	29	43
September	1	4	2	1	.....	1	1	1	7	1	2	1	22	3	1	.....	.....	1	1	3	1	.....	.....	.....	.....	10	32
October	1	.....	.....	2	.....	1	2	1	2	1	.....	4	14	.....	1	2	2	1	1	2	.....	3	3	2	.....	17	31
November	5	1	1	1	2	5	.....	5	1	.....	1	3	25	3	4	1	1	3	1	1	6	2	1	1	.....	24	49
December	4	2	1	2	6	3	5	2	7	32	10	3	2	4	2	2	2	3	2	5	2	37	69
Total	21	15	15	24	23	20	24	23	27	17	22	35	266	41	44	23	30	30	21	41	27	24	15	17	12	325	591	

Showing the number of Alarms from each Box during the year 1891.

Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Total.
2	.....	79	1	172	.....	254	1	336	.....	417	.....	488	.....	571	1			
3	4	81	2	173	.....	255	.....	337	.....	418	.....	489	.....	572	.....		
4	2	82	1	174	.....	256	.....	338	.....	419	1	491	.....	573	1			
5	.....	83	3	175	1	257	.....	339	.....	421	.....	492	1	574	6			
6	1	84	1	176	5	258	3	341	.....	422	.....	493	1	575	1			
7	.....	85	3	177	.....	259	.....	342	1	423	2	494	.....	576	1			
8	1	86	.....	178	.....	261	2	343	1	424	.....	495	1	577	.....		
9	3	87	1	179	.....	262	2	344	.....	425	.....	496	.....	578	.....		
12	9	88	1	181	.....	263	1	345	.....	426	1	497	.....	579	.....		
13	.....	91	10	182	1	264	.....	346	.....	427	.....	498	1	581	.....		
14	.....	92	1	183	.....	265	1	347	.....	428	1	499	.....	582	.....		
15	4	93	.....	184	.....	266	.....	348	4	429	5	512	.....	583	.....		
16	2	94	1	185	3	267	.....	349	1	431	3	513	4	584	.....		
17	.....	95	1	186	5	268	1	351	1	432	2	514	2	585	.....		
18	.....	96	.....	187	.....	269	.....	352	5	433	.....	515	.....	586	1			
19	1	97	2	188	.....	271	.....	353	.....	434	1	516	1	587	.....		
21	.....	98	1	189	.....	272	2	354	.....	435	.....	517	.....	588	.....		
23	1	121	1	191	.....	273	1	355	.....	436	1	518	4	589	1			
24	.....	122	.....	192	.....	274	3	356	1	437	2	519	.....	591	.....		
25	4	123	.....	193	1	275	.....	357	.....	438	1	521	3	592	1			
26	.....	124	5	194	.....	276	.....	358	1	439	.....	522	.....	593	1			
27	1	125	.....	195	.....	277	.....	359	.....	441	.....	523	.....	594	.....		
28	2	126	2	196	1	278	2	361	1	442	.....	524	.....	595	1			
29	4	127	.....	197	.....	279	1	362	4	443	.....	525	2	596	.....		
31	.....	128	.....	198	2	281	1	363	1	445	.....	526	.....	597	1			
32	.....	129	2	199	.....	282	2	364	.....	446	.....	527	3	598	1			
34	1	131	.....	212	1	283	2	365	1	447	.....	528	2	599	.....		
35	2	132	.....	213	1	284	3	366	.....	448	.....	529	3	612	.....		
36	2	133	.....	214	.....	285	1	367	1	449	.....	531	.....	613	1			
37	.....	134	1	215	.....	286	.....	368	1	451	1	532	.....	614	.....		
38	2	135	.....	216	.....	287	.....	369	.....	452	.....	533	.....	615	.....		
39	5	136	.....	217	1	288	.....	371	1	453	1	534	.....	616	1			
41	.....	137	.....	218	2	289	.....	372	.....	454	1	535	.....	617	.....		
42	3	138	.....	219	1	291	.....	373	.....	455	.....	536	.....	618	2			
43	.....	139	1	221	.....	292	7	374	1	456	.....	537	1	619	1			
45	4	141	3	223	.....	293	.....	375	1	457	.....	538	1	621	2			
46	.....	142	1	224	.....	294	1	376	.....	458	1	539	.....	622	.....		
47	1	143	2	225	.....	295	2	377	.....	459	1	541	.....	623	.....		
48	1	144	.....	226	.....	296	.....	378	.....	461	2	542	.....	624	1			
49	.....	145	4	227	.....	297	1	379	.....	462	4	543	.....	625	.....		
51	1	146	1	228	5	298	.....	381	2	463	.....	544	.....	626	.....		
52	1	147	2	229	1	299	.....	382	.....	464	1	545	8	627	.....		
53	2	148	1	231	2	312	.....	383	1	465	.....	546	.....	628	.....		
54	3	149	1	232	.....	313	.....	384	2	466	.....	547	1	629	1			
56	.....	151	.....	233	.....	314	1	385	1	467	1	548	.....	631	1			
57	.....	152	1	234	3	315	3	386	2	468	.....	549	.....	632	2			
58	8	153	4	235	5	316	.....	387	.....	469	2	551	.....	633	.....		
59	.....	154	.....	236	2	317	3	388	.....	471	1	552	.....	634	.....		
61	1	155	1	237	2	318	.....	389	1	472	2	553	.....	635	2			
62	1	156	.....	238	2	319	1	391	2	473	.....	554	.....	636	.....		
63	3	157	1	239	1	321	1	392	2	474	.....	555	.....	637	.....		
64	1	158	3	241	2	322	.....	393	7	475	2	557	.....	638	.....		
65	2	159	1	242	2	323	2	394	1	476	1	558	.....	639	1			
67	.....	161	2	243	.....	324	.....	395	.....	477	.....	559	.....	641	1			
68	.....	162	1	244	.....	325	1	396	.....	478	.....	561	1	642	.....		
69	1	163	2	245	.....	326	.....	397	.....	479	.....	562	2	643	2			
71	1	164	.....	246	.....	327	2	398	3	481	8	563	.....	644	.....		
72	3	165	.....	247	1	328	.....	399	.....	482	.....	564	.....	645	2			
73	.....	166	.....	248	.....	329	.....	412	1	483	1	565	1	646	1			
74	.....	167	1	249	.....	331	.....	413	.....	484	1	566	.....	647	1			
75	.....	168	1	251	1	332	1	414	.....	485	6	567	1	648	.....		
76	5	169	2	252	3	334	.....	415	.....	486	.....	568	1	649	2			
78	.....	171	2	253	.....	335	.....	416	2	487	.....	569	.....	651	.....		

Showing the number of Alarms—Continued.

Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Boxes.	Alarms.	Total.
652	1	692	.....	742	.....	782	.....	832	1	871	.....	923	.....	962	.....		
653	.....	693	2	743	.....	783	1	833	.....	872	.....	924	.....	963	.....		
654	1	694	.....	744	.....	784	.....	834	.....	873	.....	925	.....	964	.....			3
655	.....	695	.....	745	1	785	.....	835	.....	874	.....	926	.....	965	.....		
656	2	696	.....	746	.....	786	.....	836	1	875	.....	927	.....	966	.....		
657	2	697	.....	747	.....	787	.....	837	.....	876	.....	928	.....	967	.....			1
658	.....	698	.....	748	1	788	.....	838	3	877	.....	929	.....	968	.....			1
659	2	699	.....	749	1	789	.....	839	.....	878	.....	931	.....	969	.....			1
661	.....	712	.....	751	.....	791	.....	841	.....	879	.....	932	1	971	.....		
662	.....	713	5	752	2	792	.....	842	.....	881	.....	933	.....	972	.....		
663	.....	714	1	753	1	793	1	843	.....	883	.....	934	.....	973	.....		
664	.....	715	.....	754	.....	794	1	844	.....	884	.....	935	.....	974	.....		
665	.....	716	.....	755	.....	795	1	845	.....	885	.....	936	.....	975	.....		
667	.....	717	.....	756	3	796	.....	846	.....	886	.....	937	.....	976	.....			1
668	.....	718	1	757	2	797	.....	847	.....	887	.....	938	.....	977	.....		
669	.....	719	.....	758	.....	798	.....	848	.....	889	.....	939	.....	978	.....		
671	1	721	2	759	.....	799	.....	849	.....	891	.....	941	1	979	.....		
672	.....	722	.....	761	.....	812	.....	851	.....	892	.....	942	.....	981	.....		
673	.....	723	1	762	2	813	.....	852	.....	893	.....	943	2	982	.....			2
674	.....	724	.....	763	.....	814	1	853	.....	894	.....	944	.....	983	.....		
675	8	725	.....	764	.....	815	3	854	1	895	.....	945	.....	984	.....		
676	4	726	.....	765	4	816	.....	855	.....	896	1	946	.....	985	.....		
677	.....	727	.....	766	.....	817	.....	856	.....	897	.....	947	.....	986	.....		
678	2	728	.....	767	1	818	.....	857	.....	898	1	948	.....	987	.....		
679	.....	729	.....	768	1	819	.....	858	.....	899	.....	949	.....	988	.....		
681	1	731	1	769	.....	821	.....	859	.....	912	.....	951	3	989	.....		
682	1	732	.....	771	.....	822	.....	861	.....	913	.....	952	3	991	.....		
683	.....	733	.....	772	.....	823	1	862	.....	914	.....	953	1	992	.....		
684	.....	734	.....	773	.....	824	2	863	.....	915	.....	954	2	993	.....		
685	1	735	1	774	.....	825	.....	864	1	916	.....	955	.....	994	.....		
686	1	736	.....	775	.....	826	.....	865	.....	917	.....	956	4	995	.....		
687	2	737	1	776	.....	827	.....	866	.....	918	.....	957	.....	996	.....		
688	.....	738	1	778	.....	828	1	867	.....	919	.....	958	.....	997	.....		
689	.....	739	.....	779	.....	829	.....	868	.....	921	.....	959	2	998	.....		
691	2	741	4	781	.....	831	.....	869	.....	922	.....	961	1	.....	.....	
119		98		78		67		61		54		65		50		592		

Number of Miles of Overhead and Underground Wires.

Overhead.	Number of miles on City Poles.	Number of miles on other poles.	No. of miles on fixtures & buildings.	Total.
American District Telegraph Co.....	12.08	.5	86.	98.58
American Rapid Telegraph Company.....	5.96	11.51	.....	17.47
American Telegraph & Telephone Co.....	.....	49.62	78.94	128.56
Ammonia Company of Philadelphia.....	1.5	2.25	.....	3.75
Atlantic and Pacific Telegraph Co.....	.....	14.34	.....	14.34
Atlantic Refining Company.....	10.	10.	12.	32.
Baeder & Adamson Company.....	4.	.....	.....	4.
Baltimore & Ohio Telegraph Co.....	13.6	.....	.....	13.6
Bankers & Merchants Telegraph Co.....	.....	351.	20.	371.
Bell Telephone Co. of Philadelphia	96.	456.95	788.9	1,341.85
Brush Electric Light Company.....	56.8	108.7	.....	165.5
Cheltenham Electric Light, Heat and Power Company.....	.....	4.62	.....	4.62
Diamond Electric Company.....	.....	20.31	.55	20.86
Elkinton, Joseph S. and Thomas.....	3.13	.12	.25	3.5
Frankford Avenue Merchants Electric Light Company .....	.....	.....	3.	3.
Frankford Electric Light & Power Co.....	.63	20.41	.....	21.04
Germantown Electric Light Company.....	5.66	40.96	.....	46.52
Girard Point Storage Company.....	3.	10.	.....	13.
Harrison Brothers & Company	5.	4.75	1.08	10.83
Kneckerbocker Ice Company.....	21.	.....	.....	21.
Manufacturers Electric Company .....	.....	18.	.....	18.
Merchants Electric Light Company of North Front Street.....	.....	1.	3.	4.
Mutual Union Telegraph Company .....	.....	371.74	.....	371.74
Northern Electric Light and Power Co.....	39.	54.	.....	93.
Pennsylvania Railroad Company	9.87	73.	2.25	85.29
Philadelphia Electric Light Company	28.	26.	.....	54.
Philadelphia Illuminating Company (Limited).....	1.84	.....	.....	1.84
Philadelphia Local Telegraph Co.....	9.1	25.3	11.1	45.5
Philadelphia Local Telegraph Co.....	3.	56.84	.....	59.84
Philadelphia, Reading & Pottsville Telegraph Company	19.27	116.31	.....	135.58
Powellton Electric Company.....	6.9	39.6	.....	46.5
Southern Electric Light & Power Co	14.66	23.1	.....	37.76
Suburban Electric Company .....	.....	52.79	.....	52.79
United States Electric Light Company	17.32	57.91	.....	75.23
Western Union Telegraph Company.....	1.95	788.11	.....	788.06
Wissahickon Electric Company.....	3.3	4.28	.....	7.58
	392.47	2,809.19	1,007.07	4,208.73
City Wires.....				837.75
Total Overhead Wires.....				5,046.48

Underground.	Electric light wires.	Telephone & Telegraph Wires.	Total.
American Telegraph & Telephone Co.....	.....	843.76	843.76
Brush Electric Light Company.....	1.	.....	1.
Columbia Electric Company	5.3	.....	5.3
Edison Electric Light Company.....	92.2	.....	92.2
Frankford Avenue Merchants Electric Light Company.....	3.	.....	3.
Girard Estate.....	1.40	.....	1.40
Henry C. Gibson <i>et al</i>.....	.....	365.05	365.05
Keystone Light & Power Company.....	11.15	.....	11.15
Manufacturers Electric Company.....	1.25	.....	1.25
Merchants Electric Light Company of North Front Street.....	9.3	.....	9.3
Underground Electric Light & Power Company .....	.....	.....	5.01
City	15.02	120.95	135.97
Total Underground Wires.....	144.63	1,329.76	1,474.39
Total Overhead and Underground Wires			6,520.87

Summary of Underground Conduits.

COMPANIES, FIRMS AND CORPORATIONS.	No. of Conduits.	Length in Feet.	No. of Ducts.	Length in Feet.	Miles of Ducts.
American Telegraph and Telephone Company.....	72	261,994	628	1,925,812	364.73
Bell Telephone Company, of Philadelphia.....	317	89,476	3,432	1,127,047	213.45
Columbia Electric Light Company.....	3	7,202	18	43,212	8.18
Drexel & Company.....	1	559			
Edison Electric Light Company.....	265	65,514	283	162,289	30.73
Edison Electric Light Company, (for City use)....	21	6,226	35	11,543	2.18
Frankford avenue Merchants' Electric Light Co..	3	7,650	27	68,850	13.03
Girard Estate.....	1	5,250	4	21,000	3.09
Henry C. Gibson, <i>et al.</i>	7	24,372			
Keystone Light and Power Company.....	20	5,543			
Manufacturers' Electric Company.....	7	6,400	47	48,300	9.13
Merchants' Electric Light Co., of N. Front street.	69	6,277	137	38,160	7.18
Penn Electric Light Company.....	28	39,820	181	434,627	82.31
Penn Electric Light Company, (for City use).....	25	32,666	25	32,666	6.18
Philadelphia, Reading & Pottsville Telegraph Co..	5	1,014			
Strawbridge & Clothier.....	1	45			
Underground Electric Light and Power Company	8	26,426	37	107,261	20.31
City	21	59,080	129	278,480	52.73
Total.....	874	645,464	4,978	4,299,247	814.04

Return of license charges for attachments to City poles, maintenance of poles, erection of poles, and mileage of wires over head for the year 1891.

	Attachments.		Maintenance of poles.		Erection of poles.		Wires on City poles.		Wire on other poles and buildings.		Total.		Total charges.
	Paid.	Unpaid.	Paid.	Unpaid.	Paid.	Unpaid.	Paid.	Unpaid.	Paid.	Unpaid.	Paid.	Unpaid.	
American District Telegraph Co.....	\$208 50		\$8 00				\$32 50		\$240 00		\$249 00		\$489 00
American Rapid Telegraph Co.....	246 00			\$33 00				\$15 00	30 00			\$240 00	384 00
American Telephone and Telegraph Co.....			96 00									138 00	384 00
American Co. (formerly Henry Bower & Son).....	28 00		6 00				5 00		\$237 50				333 50
Atlantic and Pacific Telegraph Co.....	4 00			293 00					5 00				44 00
Atlantic Refining Company.....	178 50		4 00				25 00						334 50
Baeder, Adamson & Co.....	71 00						10 00		37 50		4 00	330 50	245 00
Baltimore & Ohio Telegraph Co.....		\$163 50		549 00				35 00			81 00		245 00
Bankers' & Merchants' Telegraph Co.....												198 50	81 00
Bell Telephone Company, of Philadelphia.....	1,455 00		99 00									1,476 50	1,476 50
Brush Electric Light Co.....	1,061 00			777 00			180 00				1,554 00	6,315 00	6,869 00
Chesapeake Electric Light, Heat and Power Co.....			38 00						15 00		1,621 00	1,572 00	3,193 00
Diamond Electric Co.....					\$380 00						1,215 00		1,215 00
Electric Power Co.....	76 00		106 00		10 00		20 00		20 00		282 00		282 00
Elkinton, Joseph S. & Thomas.....	53 00				1,215 00		7 50		2 50		63 00		63 00
Frankford Electric Light and Power Co.....	20 00		68 00				5 00		35 00		128 00		128 00
German town Electric Light Co.....	75 00		317 00		220 00		25 00		170 00		807 00		807 00
Girard Point Storage Co.....	62 50						7 50		25 00		95 00		95 00
Harrison Brothers & Co.....	86 00		44 00				12 50		15 00		187 50		187 50
Knickerbocker Ice Co.....	242 00						52 50				294 50		294 50
Manufacturers' Electric Co.....					655 00						655 00		655 00
Mutual Union Telegraph Co.....	654 00			550 00								1,485 00	1,485 00
Northern Electric Light and Power Co.....	168 00		437 00		705 00		170 00		255 00		2,221 00		2,221 00
Pennsylvania Railroad Co.....	560 50		92 00				25 00		175 00		460 00		460 00
Philadelphia Electric Light Co.....	238 00			212 00			160 00					307 00	1,472 50
Philadelphia Local Telegraph Co.....	268 00			517 00					95 00		1,165 50		1,472 50
Philadelphia, Reading and Pottsville Telegraph Co.....	395 50			227 00				30 00	238 00		787 00		1,025 00
Powellton Electric Company.....	152 50		298 00		645 00		52 50		302 50		448 00	529 50	977 50
Southern Electric Light and Power Co.....	144 00		222 00		1,065 00		30 00		160 00		1,285 50		1,285 50
Suburban Electric Co.....					1,380 00		20 00		70 00		1,521 00		1,521 00
United States Electric Light Company.....	371 00			335 00							1,380 00		1,380 00
West End Electric Co.....	16 00			876 00			90 00				646 00	515 00	1,161 00
Western Union Telegraph Co.....	28 00		35 00		180 00		15 00				370 00		370 00
Wisconsin Electric Light Co.....									1,957 00		16 00	2,838 50	2,854 50
											273 00		273 00
	\$6,594 00	\$163 50	\$1,370 00	\$4,449 00	\$7,515 00		\$945 00	\$327 50	1,237 50	\$10,792 50	\$18,161 50	\$15,732 50	\$33,894 00

Appropriation to the Department of Public Safety (Electrical Bureau) with the Expenditures and Balances for the year 1891.

Item.		Amount appropriat'd.	Amount expended.	Balance.
1	For salary of Chief, \$4,000; manager, \$2,500; assistant manager, \$1,500; clerk, \$1,500; assistant clerk, \$800; draughtsman, \$1,000; six inspectors, \$1,080 each, and \$40 for uniforms each; sixteen operators, \$1,000, and \$40 for uniforms each; foreman, \$900, and \$40 for uniform; seven linemen, \$850 each, and \$40 for uniforms each; batteryman, \$900; assistant batteryman and plumber, \$1,000, and \$40 for uniforms; two janitors, \$250 each.....	\$44,270 00	\$44,153 29	\$116 71
2	For repairs, instruments, supplies and labor.....	\$12,000 00		
	Transfer November 11, 1891.....	2,000 00		
3	For maintenance and keep of horse and wagons.....	14,000 00	13,984 40	15 60
4	For batteries, acids and materials.....	500 00	500 00	
	Transfer November 11, 1891.....	1,000 00		
5	For stationery, printing, advertising and incidentals.....	\$1,800 00		
	Transfer November 11, 1891.....	1,000 00		
6	For painting telegraph poles, cross-arms and patrol houses.....	2,300 00	2,299 65	35
7	For fuel and ice.....	1,500 00	1,499 98	02
8	For the improvement and extension of the police and fire telegraph: <i>Provided</i> , no part of this Item shall merge at the close of the year 1891.....	\$10,000 00	53 41	71 59
	Brought over from books of 1890.....	993 80		
9	For rental of telephones and purchase of materials and instruments, and extension of the lines and hospital and armory service, including Presbyterian, St. Mary's, Children's Homeopathic, Hahnemann, St. Timothy's and St. Joseph's Hospitals, at \$100 per annum each.....	8,800 00	8,781 50	18 50
10	For the extension of the police signal and telephone service.....	10,000 00	9,999 61	39
11	For cables, conduits, manholes, posts, mast-arms, materials and labor for underground electrical service: <i>Provided</i> , That no part of this Item shall merge at the close of the year 1891.....	\$20,000 00		
	Brought over from books of 1890.....	17,570 15		
		37,570 15	35,762 59	*1,807 56
12	For rental of store-house.....	500 00	399 96	100 04
13	For underground conduits on Green street.....	7,800 00	7,578 77	221 23
	Total	\$144,358 45	\$141,249 58	\$3,108 87
	*Carried over to Books of 1892.			

